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Descrizione fisica	1 online resource (XII, 554 p. 60 illus., 30 illus. in color.)
Disciplina	579.135
Soggetti	Mycology Molecular biology Drug resistance Cell membranes Molecular Medicine Drug Resistance Membrane Biology
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Fungal infections -- Fungal infections- The South-Asian perspective -- Regulatory pathways during C. albicans infections -- Virulence mechanisms and regulation -- Signalling mechanisms in pathogenesis and virulence of C. albicans -- Biofilm development -- Biofilm development and resistance mechanisms -- Biofilm of C. albicans: development and regulation -- Host immune responses during infections -- Mechanism of drug resistance -- Structure- function analyses of Multi-drug transporters -- All about MFS multi-drug transporter of Candida albicans -- Inhibitors/Modulators of MDR transporters -- Inhibitors/Modulators of MDR proteins/transporters -- Anti-fungals -- Anti-microbial peptides -- Anti-candidial agents -- MDR1 and its regulation -- Genomics and Anti-fungal resistance -- Genomics and Anti-fungal resistance -- Lipids and Multi-drug resistance in Candida albicans -- Cell wall of Candida albicans and its role in virulence -- Hyphal morphogenesis of C. albicans -- Innate immune defences against fungal infections.

Sommario/riassunto

This book on Candida albicans and similar pathogens provides a timely overview of the groundbreaking discoveries made in the areas of drug resistance, host–pathogen interactions, virulence, host immune system modulation, etc., in the last two decades. This comprehensive 2nd Edition includes chapters on fungal infections, hyphal morphogenesis, molecular mechanisms of antifungal resistance, antifungal agents, multidrug transporters, virulence mechanisms in Candida albicans, host–pathogen interactions, the cell wall, fungal biofilms, lipids and antifungal resistance, signaling mechanisms and last but not the least host-immune responses. As such, it offers an ideal reference guide for mycologists, researchers, pharmacists, clinicians, and undergraduate students engaged or interested in fungal research. It will also benefit clinicians, who are required to keep abreast of the current state of research on antifungal drug resistance and antifungal development.