

1. Record Nr.	UNINA9910829806003321
Titolo	Candida and candidiasis [[electronic resource] /] / edited by Richard A. Calderone, Cornelius J. Clancy
Pubbl/distr/stampa	Washington, DC, : ASM Press, c2012
ISBN	1-68367-095-7 1-283-65648-5 1-55581-717-3
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (544 p.)
Altri autori (Persone)	CalderoneRichard A. <1942-> ClancyCornelius J
Disciplina	616.969
Soggetti	Candidiasis Candida
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Contents; Contributors; Preface; 1 Candida: What Should Clinicians and Scientists Be Talking About?; SECTION I: THE ORGANISMS, THEIR GENOMICS, AND VARIABILITY; 2 An Introduction to the Medically Important Candida Species; 3 Comparative Genomics of Candida Species; 4 The Genetic Code of the Candida CTG Clade; 5 Genome Instability and DNA Repair; 6 Switching and Mating; 7 Detection and Clinical Significance of Variability among Candida Isolates; 8 Cell Cycle and Growth Control in Candida Species; SECTION II: HOST-PATHOGEN INTERACTIONS (THE HOST); 9 Immunology of Invasive Candidiasis 10 Mucosal Immunity to Candida albicans11 Innate Immunity to Candida Infections; 12 Vaccines and Passive Immunity against Candidiasis; 13 Salivary Histatins: Structure, Function, and Mechanisms of Antifungal Activity; SECTION III: HOST-PATHOGEN INTERACTIONS THE PATHOGEN); 14 The Cell Wall: Glycoproteins, Remodeling, and Regulation; 15 Stress Responses in Candida; 16 Adhesins in Opportunistic Fungal Pathogens; 17 Encounters with Mammalian Cells: Survival Strategies of Candida Species; 18 Gene Expression during the Distinct Stages of Candidiasis; 19 Biofilm Formation in Candida albicans

20 *Candida* spp. in Microbial Populations and Communities: Molecular Interactions and Biological Importance
21 Back to the Future: *Candida* Mitochondria and Energetics; SECTION IV: ANTIFUNGAL DRUGS, DRUG RESISTANCE, AND DISCOVERY; 22 Antifungals: Drug Class, Mechanisms of Action, Pharmacokinetics/Pharmacodynamics, Drug-Drug Interactions, Toxicity, and Clinical Use; 23 The Impact of Antifungal Drug Resistance in the Clinic; 24 Insights in Antifungal Drug Discovery; 25 Multidrug Resistance Transcriptional Regulatory Networks in *Candida*
SECTION V: CANDIDIASIS, EVOLVING DIAGNOSTICS, AND TREATMENT PARADIGMS
26 Mucosal Candidiasis; 27 Systemic Candidiasis: Candidemia and Deep-Organ Infections; 28 New Developments in Diagnostics and Management of Invasive Candidiasis; 29 The Epidemiology of Invasive Candidiasis; SECTION VI: COOL TOOLS FOR RESEARCH; 30 Cool Tools 1: Development and Application of a *Candida albicans* Two-Hybrid System; 31 Cool Tools 2: Development of a *Candida albicans* Cell Surface Protein Microarray; 32 Cool Tools 3: Large-Scale Genetic Interaction Screening in *Candida albicans*
33 Cool Tools 4: Imaging *Candida* Infections in the Live Host
34 Cool Tools 5: The *Candida albicans* ORFeome Project; Index; A; B; C; D; E; F; G; H; I; J; K; L; M; N; O; P; Q; R; S; T; U; V; W; X; Y; Z

Sommario/riassunto

The underlying mechanisms of *Candida* and candidiasis and promising new directions in drug discovery and treatment.
