1. Record Nr. UNINA9911019671603321

Titolo	Medical mycology : cellular and molecular techniques / / edited by Kevin Kavanagh
Pubbl/distr/stampa	Chichester, England ; ; Hoboken, NJ, : Wiley, c2007
ISBN	9786612345920 9781282345928 1282345923 9780470057414 0470057416 9780470057407 0470057408
Descrizione fisica	1 online resource (350 p.)
Altri autori (Persone)	KavanaghKevin
Disciplina	616.9/6901
Soggetti	Medical mycology Mycoses - Molecular aspects
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	Medical Mycology; Contents; Preface; List of Contributors; 1 Diagnosis of Candida Infection in Tissue by Immunohistochemistry; 1.1 Introduction; 1.2 Specificity of monoclonal antibody 3H8 for C. albicans; Protocol 1.1 Testing of specificity of monoclonal antibody 3H8; 1.3 Evaluation of monoclonal antibody 3H8 for the detection of C. albicans morphological forms; Protocol 1.2 Evaluation of monoclonal antibody 3H8 for the detection of C. albicans morphological forms; 1.4 Application of immunohistochemistry in the diagnosis of Candida periodontal disease Protocol 1.3 Use of monoclonal antibody 3H8 in the detection of C. albicans in tissue1.5 References; 2 Transmission Electron Microscopy of Pathogenic Fungi; 2.1 Introduction; 2.2 Glutaraldehyde-potassium-permanganate or glutaraldehyde-osmiumtetroxide fixation for ultrastructural analysis; Protocol 2.1 Glutaraldehyde-osmium tetroxide (#) or glutaraldehyde-potassium permanganate (*) fixation for ultrastructural analysis; 2.3 Identification of the different compartments

of the secretory pathway in yeasts

Protocol 2.2 Identification of the different compartments of the secretory pathway in yeasts2.4 Cytochemical localization of acid phosphatase in yeasts; Protocol 2.3 Cytochemical localization of acid phosphatase in yeasts; 2.5 Detection of anionic sites; Protocol 2.4 Detection of anionic sites; 2.6 Detection of glycoconjugates by the periodic acid-thiocarbohydrazide-silver proteinate technique (PATAg); Protocol 2.5 Detection of glycoconjugates by the periodic acid-thiocarbohydrazide-silver proteinate technique (PATAg)
2.7 Enzyme-gold approach for the detection of polysaccharides in the cell wallProtocol 2.6 Enzyme-gold approach for the detection of polysaccharides in the cell wall; 2.8 Detection of glycoconjugates by the lectin-gold technique; Protocol 2.7 Detection of glycoconjugates by the lectin-gold technique; 2.9 Immunogold detection of antigens on ultrathin sections of acrylic resin; Protocol 2.8 Immunogold detection of antigens on ultrathin sections of acrylic resin; 2.10 Cryofixation and freeze substitution for ultrastructural analysis and immunodetection Protocol 2.9 Cryofixation and freeze substitution for ultrastructural analysis and immunodetection2.11 Overview; 2.12 References; 3 Evaluation of Molecular Responses and Antifungal Activity of Phagocytes to Opportunistic Fungi; 3.1 Introduction; 3.2 Preparation of conidia and hyphae of opportunistic fungi; Protocol 3.1 Preparation of conidia and hyphae of opportunistic fungi; Protocol 3.2 Preparation of hyphal fragments; 3.3 Isolation of human monocytes from whole blood; Protocol 3.3 Isolation of human MNCs from whole blood; 3.4 Analysis of human MNC function in response to fungal infection
Protocol 3.4 XTT microassay

Sommario/riassunto

Medical Mycology: Cellular and Molecular techniques is a clear and concise overview of the subject that details the techniques essential for ongoing research in the area. Drawing together contributions from both scientists and clinicians working in the field, the text will provide a valuable perspective on the applicability of specific techniques to patient care. A wide range of molecular, immunological and cytological techniques are discussed throughout, with the inclusion of protocol section in each chapter designed to provide both a background a up-to-date account of the applicatio