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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 <i>C. albicans</i> ; Protocol 1.1 Testing of specificity of monoclonal antibody 3H8; 1.3 Evaluation of monoclonal antibody 3H8 for the detection of <i>C. albicans</i> morphological forms; Protocol 1.2 Evaluation of monoclonal antibody 3H8 for the detection of <i>C. albicans</i> 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 <i>C. albicans</i> in tissue 1.5 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 yeasts; 2.4 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 wall; Protocol 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 immunodetection; 2.11 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

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#### 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

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