

Fourth Edition

Laboratory Manual

MICROBIOLOGY FUNDAMENTALS

A Clinical Approach

Steven Obenauf | Susan Finazzo



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Yi-Wei Tang, Charles W. Stratton, 2012-09-13 In the United States hospitals annually report over 5 million cases of infectious disease related illnesses clinical microbiology laboratories in these hospitals are engaged in detecting and identifying the pathogenic microorganisms in clinical specimens collected from these patients with suspected infections Clearly the timely and accurate detection identification of these microbial pathogens is critical for patient treatment decisions and outcomes for millions of patients each year Despite an appreciation that the outcome of an infectious disease related illness is directly related to the time required to detect and identify a microbial pathogen clinical microbiology laboratories in the United States as well as worldwide have long been hampered by traditional culture based assays which may require prolonged incubation time for slowly growing microorganisms such as *Mycobacterium tuberculosis* Moreover traditional culture based assays often require multiple steps with additional time needed for discernment of species and or detection of antimicrobial resistance Finally these traditional slow multistep culture based assays are labor intensive and required skilled clinical microbiologists at the bench Over the past several decades advanced molecular techniques in diagnostic microbiology quietly have been revolutionizing the practice of clinical microbiology in the hospital setting Indeed molecular diagnostic testing in general and nucleic acid based amplification methods in particular have been heralded as diagnostic tools for the new millennium There is no question that the development of rapid molecular techniques for nucleic acid amplification characterization combined with automation and user friendly software has greatly broadened the diagnostic capabilities of the clinical microbiology laboratory These technical advances in molecular microbiology over the first decade of the 21st Century have profoundly influenced the physical structure of clinical microbiology laboratories as well as their staffing patterns workflow and turnaround time These molecular microbiology advances have also resulted in the need for a revised and updated second edition of *Advanced Techniques in Diagnostic Microbiology* This second edition again provides an updated and comprehensive description of the ongoing evolution of molecular methods for the diagnosis of infectious diseases In addition many new chapters have been added including a chapter on the clinical interpretation and relevance of advanced technique results The second edition like the first edition includes both a techniques section describing the latest molecular techniques and an applications section describing how these advanced molecular techniques are being used in the clinical setting Finally the second edition like the first edition utilizes a diverse team of authors who have compiled chapters that provide the reader with comprehensive and useable information on advanced molecular microbiology techniques

Molecular Microbiology David H. Persing, Fred C. Tenover, Randall T. Hayden, Margareta Ieven, Melissa B.

Miller, Frederick S. Nolte, Yi-Wei Tang, Alex van Belkum, 2020-07-24 Presenting the latest molecular diagnostic techniques in one comprehensive volume The molecular diagnostics landscape has changed dramatically since the last edition of Molecular Microbiology Diagnostic Principles and Practice in 2011 With the spread of molecular testing and the development of new technologies and their opportunities laboratory professionals and physicians more than ever need a resource to help them navigate this rapidly evolving field Editors David Persing and Fred Tenover have brought together a team of experienced researchers and diagnosticians to update this third edition comprehensively to present the latest developments in molecular diagnostics in the support of clinical care and of basic and clinical research including next generation sequencing and whole genome analysis These updates are provided in an easy to read format and supported by a broad range of practical advice such as determining the appropriate type and quantity of a specimen releasing and concentrating the targets and eliminating inhibitors Molecular Microbiology Diagnostic Principles and Practice Presents the latest basic scientific theory underlying molecular diagnostics Offers tested and proven applications of molecular diagnostics for the diagnosis of infectious diseases including point of care testing Illustrates and summarizes key concepts and techniques with detailed figures and tables Discusses emerging technologies including the use of molecular typing methods for real time tracking of infectious outbreaks and antibiotic resistance Advises on the latest quality control and quality assurance measures Explores the increasing opportunities and capabilities of information technology Molecular Microbiology Diagnostic Principles and Practice is a textbook for molecular diagnostics courses that can also be used by anyone involved with diagnostic test selection and interpretation It is also a useful reference for laboratories and as a continuing education resource for physicians If you are looking for online access to the latest clinical microbiology content please visit www.wiley.com/learn/clinmicronow Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office, 1976-07

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