(Mobile book) Molecular Microbiology: Diagnostic Principles and Practice

Molecular Microbiology: Diagnostic Principles and Practice

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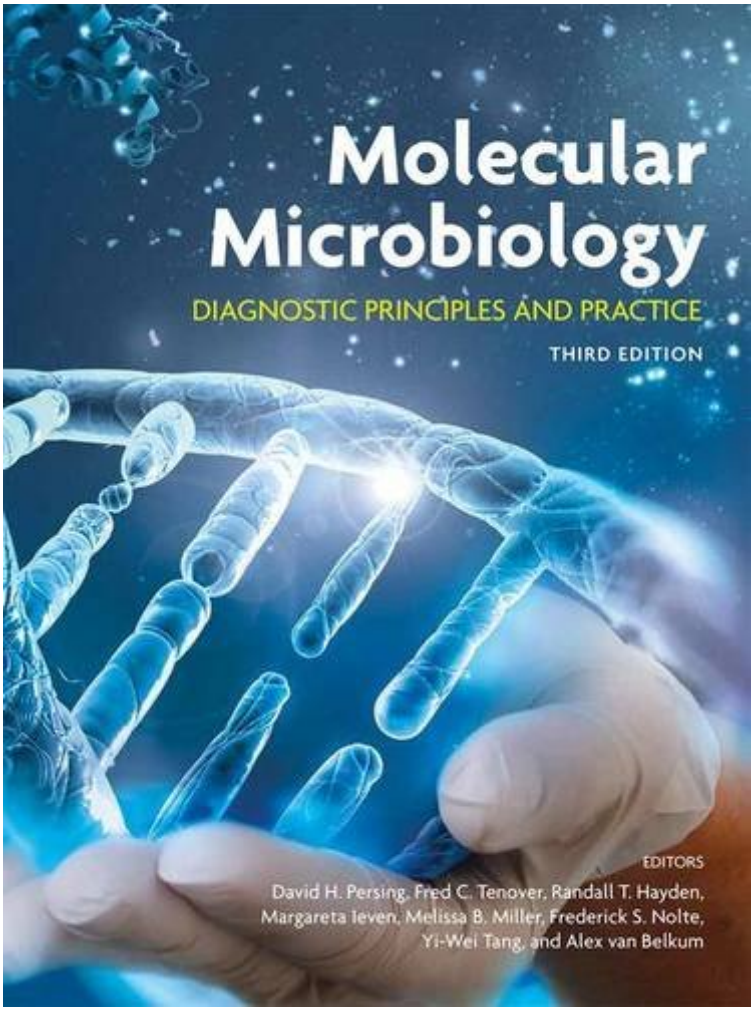

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0 of 0 people found the following review helpful. Four StarsBy Bibi BaceExcellent

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.

Molecular methods have become indispensable for the rapid and accurate diagnosis of infections, and this book provides an authoritative guide to the field. I highly recommend it. Ferric C. Fang, MD, Professor of Laboratory Medicine and Microbiology, Adjunct Professor of Medicine (Infectious Diseases), University of Washington School of Medicine Director, Harborview Medical Center Clinical Microbiology LaboratoryAbout the AuthorDr. Persing is the Executive Vice President and Chief Medical and Technology Officer at Cepheid and Consulting Professor of Pathology at Stanford University School of Medicine. Over the past 25 years, he has held leadership roles in academia and industry, starting with the design, implementation, and operation of the first PCR laboratory at the Mayo Clinic in the early 1990s. His interest in the democratization of molecular diagnostic methods has been longstanding, starting in 1993 with publication the first widely adopted textbook to include PCR protocols and guidelines for laboratory operations. His more recent work has focused on the enablement of molecular diagnostic technology to meet global needs. He has published over 300 peer reviewed articles and reviews, many of which are considered seminal works in the field. He has served as Editor in Chief for 5 textbooks published by ASM Press.Fred C. Tenover is Vice President of Scientific Affairs, Cepheid; Consulting Professor, Pathology, Stanford University School of Medicine; and Adjunct Professor, Epidemiology, Emory University. Prior to joining Cepheid in 2008, Dr. Tenover served as Associate Director, Laboratory Science, Healthcare Quality Promotion Division and Director, Office of Antimicrobial Resistance, Centers for Disease Control and Prevention. He is a Diplomate of the American Board of Medical Microbiology and a Fellow of both the American Academy of Microbiology and the Infectious Disease Society of America. He has authored over 350 peer-reviewed journal articles and book chapters and has edited 10 books.