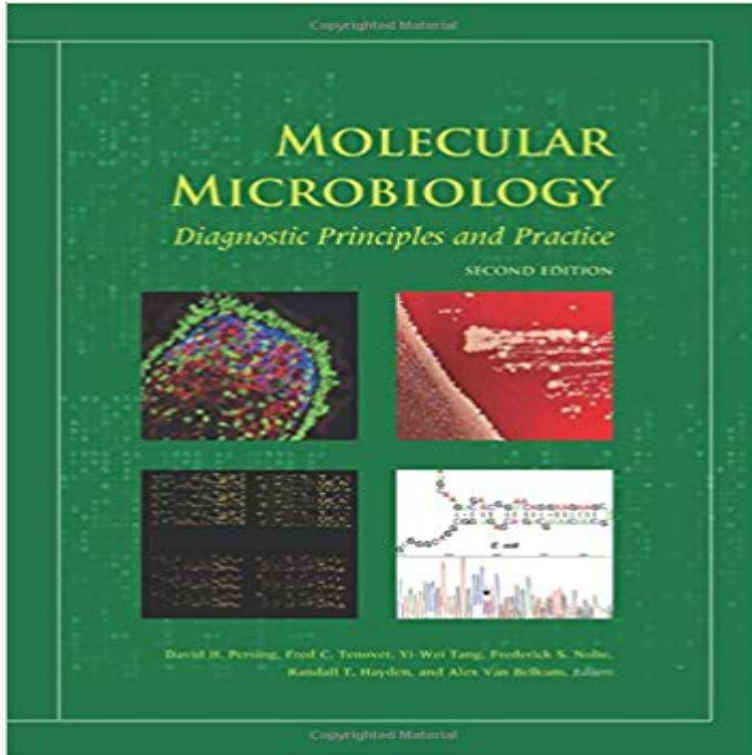


# Molecular Microbiology: Diagnostic Principles and Practice, Second Edition



The second edition of *Molecular Microbiology: Diagnostic Principles and Practice* presents the latest molecular diagnostic techniques to support clinical care and basic and clinical research. The authors, all experienced researchers and diagnosticians, have conducted a comprehensive review and evaluation of this rapidly evolving field and provide the new material in an easy-to-read summary format. Moreover, the book offers 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* not only examines techniques to detect individual pathogens, but also explores the growing trend toward a systems approach for diagnosing infectious diseases, with chapters covering gastrointestinal infections, sepsis, meningitis, and encephalitis. In short, this text not only encapsulates the current state of the science, but also points to new avenues for research that will broaden the application and usefulness of molecular diagnostics.

New to the Second Edition This edition offers the most current findings, practices, and technology. There are new chapters on microbial phylogeny, nucleic acid sequence analysis, and pharmacogenomics. The book also features several newly updated sections, including sections dedicated to verification and validation of molecular tests, laboratory operations, molecular typing, and new technologies for nucleic acid detection. In addition, the reader will find the latest information on quality control, quality assurance, and laboratory design to help with running a safe, efficient molecular laboratory.

**Key Features** Presents the latest basic scientific theory underlying molecular diagnostics  
Offers tested and proven applications of molecular diagnostics for the diagnosis of infectious diseases  
Illustrates and

summarizes key concepts and techniques with detailed figures and tables. Advises on the latest quality control and quality assurance measures. Explores emerging technologies, including the use of molecular typing methods for real-time tracking of infectious outbreaks.

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