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This comprehensive BioMérieux VITEK manual provides essential guidance for operating and maintaining the VITEK 2 Compact microbiology lab instrument. It covers detailed instructions for microbial identification and antibiotic susceptibility testing, ensuring proper use of this diagnostic system and its documentation for accurate laboratory results.

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Manual of Commercial Methods in Clinical Microbiology

The Manual of Commercial Methods in Clinical Microbiology 2nd Edition, International Edition reviews in detail the current state of the art in each of the disciplines of clinical microbiology, and reviews the sensitivities, specificities and predictive values, and subsequently the effectiveness, of commercially available methods – both manual and automated. This text allows the user to easily summarize the available methods in any particular field, or for a specific pathogen – for example, what to use for an Influenza test, a Legionella test, or what instrument to use for identification or for an antibiotic susceptibility test. The Manual of Commercial Methods in Clinical Microbiology, 2nd Edition, International Edition presents a wealth of relevant information to clinical pathologists, directors and supervisors of clinical microbiology, infectious disease physicians, point-of-care laboratories, professionals using industrial applications of diagnostic microbiology and other healthcare providers. The content will allow professionals to analyze all commercially available methods to determine which works best in their particular laboratory, hospital, clinic, or setting. Updated to appeal to an international audience, The Manual of Commercial Methods in Clinical Microbiology, 2nd Edition, International Edition is an invaluable reference to those in the health science and medical fields.

Bergey's Manual of Systematic Bacteriology

One of the most authoritative works in bacterial taxonomy, this resource has been extensively revised. This five volume second edition has been reorganized along phylogenetic lines to reflect the current state of prokaryotic taxonomy. In addition to the detailed treatments provided for all of the validly named and well-known species of prokaryotes, this edition includes new ecological information and more extensive introductory chapters.

Enterobacteriaceae Antimicrobial Agents and Resistance: Relationship with the Therapeutic Approach

The Virology Methods Manual is a comprehensive source of methods for the study, manipulation, and detection of viruses. Edited by Brian Mahy and Hillar Kangro, this work describes the most up-to-date, definitive techniques, provided by experts in each area, and presented with easy-to-use, step-by-step protocols. This new manual will satisfy the needs of virologists and all those working with viruses who need a practical guide to methods that work! Provides up-to-date techniques by experts worldwide Presents common, step-by-step protocols in an attractive, easy-to-use fashion Contains useful appendices including virus taxonomy, metabolic inhibitors, and Bio-safety in the virology laboratory

Virology Methods Manual

Security sensitive microbes (viruses, bacteria, fungi, and parasites) and toxins, which are often referred to as the select agents and toxins, have the capacity to cause serious illness and death in humans, animals, and plants. Throughout history, these microbes and toxins have been exploited in one form or another as biowarfare and bioterror agents that create fear and panic well beyond any actual physical damages they might cause. Manual of Security Sensitive Microbes and Toxins provides comprehensive, state-of-the-art coverage of microbes and toxins of biosecurity concern. The ultimate goal is to increase our awareness of these agents and enhance our preparedness against any future bio-emergencies. The book begins with an introduction containing a brief overview of the historical aspects of security sensitive microbes and toxins. This is followed by a concise summary of the current status in relation to the regulation of security sensitive microbes and toxins and a discussion of future development trends. The book is divided into seven parts: Microbes and Toxins Affecting Humans and Animals: Viruses Microbes and Toxins Affecting Human and Animals: Bacteria Microbes and Toxins Affecting Human and Animals: Fungus and Parasite Microbes and Toxins Affecting Human and Animals: Toxins Microbes Affecting Animals: Viruses Microbes Affecting Animals: Bacteria Microbes Affecting Plants Written by experts in the relevant areas of research, the chapters are authoritative reviews, each one covering a single microbe or toxin with respect to its classification, biology, epidemiology, pathogenesis, identification, diagnosis, treatment, and prevention. The chapters also discuss the limitations of our current knowledge and challenges relating to improved detection and control of the microbe or toxin.

Manual of Security Sensitive Microbes and Toxins

As more original molecular protocols and subsequent modifications are described in the literature, it has become difficult for those not directly involved in the development of these protocols to know which are most appropriate to adopt for accurate identification of bacterial pathogens. Molecular Detection of Human Bacterial Pathogens addresses this issue, with international scientists in respective bacterial pathogen research and diagnosis providing expert summaries on current diagnostic approaches for major human bacterial pathogens. Each chapter consists of a brief review on the classification, epidemiology, clinical features, and diagnosis of an important pathogenic bacterial genus, an outline of clinical sample collection and preparation procedures, a selection of representative stepwise molecular protocols, and a discussion on further research requirements relating to improved diagnosis. This book represents a reliable and convenient reference on molecular detection and identification of major human bacterial pathogens; an indispensable tool for upcoming and experienced medical, veterinary, and industrial laboratory scientists engaged in bacterial characterization; and an essential textbook for undergraduate and graduate students in microbiology.

Molecular Detection of Human Bacterial Pathogens

Bailey & Scott's Diagnostic Microbiology, Tenth Edition, is a classic resource in the field. This edition has been extensively updated to be better than ever. The tenth edition has been reorganized and rewritten to help you find information more quickly. Now in seven logically sequenced parts, the book clearly and concisely addresses general issues in clinical microbiology, the scientific and laboratory basis for clinical microbiology, diagnosis by organ system, bacteriology, parasitology, mycology, and virology.

Bailey & Scott's Diagnostic Microbiology

For the past 28 years, the Manual of Clinical Microbiology has been recognized as the benchmark for excellence among microbiology books. The sixth edition of this book once again provides the definitive reference work for running an effective state-of-the-art diagnostic laboratory, presenting

a more direct approach to organizing information, with thorough but concise treatments of all the major areas of microbiology, including new microbial discoveries, changing diagnostic methods and emerging therapeutic challenges facing clinicians. Increased emphasis has been given to infection control and the role of molecular diagnostic procedures and it contains the very latest and authoritative work on phylogenetic and nomenclatural changes so important in all areas of clinical microbiology. The authors –many of them new in this edition –are all acknowledged experts in their fields and write with accuracy and authority on the latest and most significant discoveries in bacteriology, mycology, virology, parasitology and susceptibility testing.

Manual of Clinical Microbiology

Implement the most current science and practice in antimicrobial research. Now, find the newest approaches for evaluating the activity, mechanisms of action, and bacterial resistance to antibiotics with this completely updated, landmark reference. Turn to this comprehensive reference for groundbreaking evidence on the molecular link between chemical disinfectants, sterilants, and antibiotics. On the latest methods for detecting antibacterial resistance genes in the clinical laboratory, and antivirogram use to select the most active antiviral components against your patient's HIV.

Beverage Industry Annual Manual

The field of microbiology has developed considerably in the last 20 years, building exponentially on its own discoveries and growing to encompass many other disciplines. Unfortunately, the literature in the field tends to be either encyclopedic in scope or presented as a textbook and oriented for the student. Finding its niche between these two pol

Antibiotics in Laboratory Medicine

In today's nutrition-conscious society, there is a growing awareness among meat scientists and consumers about the importance of the essential amino acids, vitamins, and minerals found in muscle foods. Handbook of Muscle Foods Analysis provides a comprehensive overview and description of the analytical techniques and application methodologies for t

Handbook of Food Science, Technology, and Engineering

The clinical microbiology laboratory is often a sentinel for the detection of drug resistant strains of microorganisms. Standardized protocols require continual scrutiny to detect emerging phenotypic resistance patterns. The timely notification of clinicians with susceptibility results can initiate the alteration of antimicrobial chemotherapy and improve patient care. It is vital that microbiology laboratories stay current with standard and emerging methods and have a solid understanding of their function in the war on infectious diseases. Antimicrobial Susceptibility Testing Protocols clearly defines the role of the clinical microbiology laboratory in integrated patient care and provides a comprehensive, up-to-date procedural manual that can be used by a wide variety of laboratorians. The authors provide a comprehensive, up-to-date procedural manual including protocols for bioassay methods and molecular methods for bacterial strain typing. Divided into three sections, the text begins by introducing basic susceptibility disciplines including disk diffusion, macro and microbroth dilution, agar dilution, and the gradient method. It covers step-by-step protocols with an emphasis on optimizing the detection of resistant microorganisms. The second section describes specialized susceptibility protocols such as surveillance procedures for detection of antibiotic-resistant bacteria, serum bactericidal assays, time-kill curves, population analysis, and synergy testing. The final section is designed to be used as a reference resource. Chapters cover antibiotic development; design and use of an antibiogram; and the interactions of the clinical microbiology laboratory with the hospital pharmacy, and infectious disease and control. Unique in its scope, Antimicrobial Susceptibility Testing Protocols gives laboratory personnel an integrated resource for updated lab-based techniques and charts within the contextual role of clinical microbiology in modern medicine.

Practical Handbook of Microbiology

This 2nd Edition offers students a comprehensive approach to the essential information they need in identifying etiologic agents of infectious diseases. New content has been added on emerging viral pathogens, newly recognized parasitic agents, emerging resistance, and emerging technologies. Pedagogical features include tables, procedures, case studies, and illustrations. Information is presented

to beginning level students in a logical approach to microbiology progressing from core principles and concepts to systematic identification of etiologic agents of infectious disease. A saleable instructor's CD-ROM is also available.

Handbook of Muscle Foods Analysis

This reference describes the management, control, and prevention of microbial foodborne disease. It analyzes transformations in the epidemiology of foodborne disease from increased transnational food exchange to examinations of new and emerging zoonoses. It also discusses the prevalence and risk of foodborne disease in developing and industrialized

Antimicrobial Susceptibility Testing Protocols

The first three editions of *Fungi and Food Spoilage* established, then consolidated, a reputation as the leading book on foodborne fungi. It details media and methods for isolation and identification, descriptions of species, and information on their physiology, ecology and mycotoxin formation. It is an invaluable reference for food microbiologists investigating fungal food spoilage problems, both in field crops and processed foods, and the likelihood of mycotoxin production in either. The Fourth Edition incorporates major differences from the Third: multiple changes in nomenclature due to changes in the International Code of Nomenclature for algae, fungi and plants; many taxonomic changes due to improvements in, and more widespread application of, molecular methods in taxonomy; the introduction of colour colony photographs where appropriate; and a new chapter on mycotoxins. The introductory chapters of the book deal with the ecology of food spoilage, and provide an overview of how food processing, packaging and storage parameters influence fungal growth. A subsequent chapter overviews the fundamentals of naming and classifying fungi. Morphological methods and media suitable for low cost and effective isolation, enumeration and identification of foodborne fungi are provided, together with many more specialised media and techniques. The major part of the book provides keys, descriptions and illustrations of all yeasts and filamentous fungi commonly encountered in foods. Other known characteristics of the species, including physiology and ecology are included. Chapters on the types and species of fungi likely to be found in fresh, harvested and variously processed foods are followed by a new chapter on mycotoxins, both major and minor, their sources, both fungal and food, and their implications for human health. The broad and practical nature of the coverage will appeal to microbiologists, mycologists and biotechnologists in the food industry, as well scientists in academic, research and public health institutions. Drs Pitt and Hocking worked for CSIRO Food for more than 100 years combined. Both are now retired from CSIRO: Dr Pitt continues to work part time with Microbial Screening Technologies, a biodiscovery company.

Textbook of Diagnostic Microbiology

Gain the knowledge and skills you need to succeed in the clinical lab! *Textbook of Diagnostic Microbiology*, 7th Edition uses a reader-friendly "building-block" approach to help you learn the essentials of diagnostic microbiology. Featuring full-color drawings and photos, this text helps you learn to develop the critical thinking and problem-solving skills necessary to the accurate diagnosis of infectious diseases and the identification of infectious agents. Written by noted educators Connie R. Mahon and Donald C. Lehman, this edition adds new content on SARS-CoV-2 and COVID-19, along with the latest information on prevention, treatment modalities, and CDC guidelines. Building-block approach encourages you to use previously learned information in mastering new material. Full-color photographs and photomicrographs make it easier to understand and apply diagnostic microbiology concepts. Case studies describe clinical and laboratory findings, offering opportunities to correlate observations with possible etiologic agents and to build critical thinking and problem-solving skills. Hands-on procedures in the appendices describe techniques used in the lab setting. Issues to Consider boxes list important points to think about while reading the chapter. Case Checks in each chapter highlight specific points in the text and show how they connect to case studies. Bolded key terms with abbreviations are listed at the beginning of each chapter, showing the most important and relevant terms in each chapter. Learning Objectives at the beginning of each chapter supply you with a measurable learning outcome to achieve by completing the material. Points to Remember sections at the end of each chapter provide a bulleted list of key concepts. Learning Assessment Questions at the conclusion of each chapter help you to think critically and to evaluate how well you have mastered the material. Agents of Bioterror and Forensic Microbiology chapter provides the most current information about these important topics. Lab manual on the Evolve website reinforces concepts with real-life scenarios and review questions.

Glossary at the end of the book supplies you with a quick reference for looking up definitions of key terms. NEW! Information about SARS-CoV-2 and COVID-19 is added to this edition. NEW! Updated content is included throughout the book, and several chapters are reorganized and refocused. NEW! Enterobacteriaceae chapter is updated.

International Handbook of Foodborne Pathogens

Microbiological Examination Methods of Food and Water is an illustrated laboratory manual that provides an overview of current standard microbiological culture methods for the examination of food and water, adhered to by renowned international organizations, such as ISO, AOAC, APHA, FDA and FSIS/USDA. It includes methods for the enumeration of indicator microorganisms of general contamination, indicators of hygiene and sanitary conditions, sporeforming, spoilage fungi and pathogenic bacteria. Every chapter begins with a comprehensive, in-depth and updated bibliographic reference on the microorganism(s) dealt with in that particular section of the book. The latest facts on the taxonomic position of each group, genus or species are given, as well as clear guidelines on how to deal with changes in nomenclature on the internet. All chapters provide schematic comparisons between the methods presented, highlighting the main differences and similarities. This allows the user to choose the method that best meets his/her needs. Moreover, each chapter lists validated alternative quick methods, which, though not described in the book, may and can be used for the analysis of the microorganism(s) dealt with in that particular chapter. The didactic setup and the visualization of procedures in step-by-step schemes allow the user to quickly perceive and execute the procedure intended. This compendium will serve as an up-to-date practical companion for laboratory professionals, technicians and research scientists, instructors, teachers and food and water analysts. Alimentary engineering, chemistry, biotechnology and biology (under)graduate students specializing in food sciences will also find the book beneficial. It is furthermore suited for use as a practical/laboratory manual for graduate courses in Food Engineering and Food Microbiology.

Fungi and Food Spoilage

Reflects changes being thrust upon the laboratory community.

Manual of Diagnostic Tests and Vaccines for Terrestrial Animals

Laboratory Protocols in Fungal Biology presents the latest techniques in fungal biology. This book analyzes information derived through real experiments, and focuses on cutting edge techniques in the field. The book comprises 57 chapters contributed from internationally recognised scientists and researchers. Experts in the field have provided up-to-date protocols covering a range of frequently used methods in fungal biology. Almost all important methods available in the area of fungal biology viz. taxonomic keys in fungi; histopathological and microscopy techniques; proteomics methods; genomics methods; industrial applications and related techniques; and bioinformatics tools in fungi are covered and compiled in one book. Chapters include introductions to their respective topics, list of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting. Each chapter is self-contained and written in a style that enables the reader to progress from elementary concepts to advanced research techniques. Laboratory Protocols in Fungal Biology is a valuable tool for both beginner research workers and experienced professionals. Coming Soon in the Fungal Biology series: Goyal, Manoharachary / Future Challenges in Crop Protection Against Fungal Pathogens Martín, García-Estrada, Zeilinger / Biosynthesis and Molecular Genetics of Fungal Secondary Metabolites Zeilinger, Martín, García-Estrada / Biosynthesis and Molecular Genetics of Fungal Secondary Metabolites, Volume 2 van den Berg, Maruthachalam / Genetic Transformation Systems in Fungi Schmoll, Dattenbock / Gene Expression Systems in Fungi Dahms / Advanced Microscopy in Mycology

Textbook of Diagnostic Microbiology - E-Book

This text covers all aspects of diagnostic microbiology, including bacteriology, virology, mycology and parasitology. New to this ninth edition is up-to-date coverage of Streptococcus, Staphylococcus, multiple drug-resistant tuberculosis, gram-negative rods, Mycobacterium haemophilum, and Rochalimaea. A new chapter on the role of the microbiologist in medical practice identifies the microbiologist's responsibilities within the medical team, with regard to: specimen collection; examination of tissue; designing appropriate test requisition forms; defining rejection criteria for specimens; deciding what is

clinically relevant in terms of specimen processing, culturing, identification and susceptibility testing; and implementing cost-saving strategies in the laboratory.

Microbiological Examination Methods of Food and Water

Providing current information and guidance on the uses of various nucleic acid amplification technologies for clinical laboratory diagnosis, this book goes beyond the Polymerase Chain Reaction to explore a broader range of important alternative DNA/RNA amplification methods including the Ligase Chain Reaction, Q[β] Replicase Assays and TMA. There are many examples of specific applications of these technologies, discussions of yet unresolved issues and demonstrations of the relevance of these technologies to medical research and disease diagnostics. Individual chapters cover uses of these methods in clinical situations such as detection of food pathogens, viral infections, STDs, Mycobacteria drug resistance mutations, and heritable diseases. Automation, diagnostic test evaluation, and the synthesis of artificial DNA are also discussed. This book is designed for all biomedical scientists interested in the application of molecular biology to clinical diagnosis.

Manual of Clinical Laboratory Immunology

In response to the ever-changing needs and responsibilities of the clinical microbiology field, Clinical Microbiology Procedures Handbook, Fourth Edition has been extensively reviewed and updated to present the most prominent procedures in use today. The Clinical Microbiology Procedures Handbook provides step-by-step protocols and descriptions that allow clinical microbiologists and laboratory staff personnel to confidently and accurately perform all analyses, including appropriate quality control recommendations, from the receipt of the specimen through processing, testing, interpretation, presentation of the final report, and subsequent consultation. If you are looking for online access to the latest from this reference or site access for your lab, please visit www.wiley.com/learn/clinmicronow.

Laboratory Protocols in Fungal Biology

Now in striking full color, this Seventh Edition of Koneman's gold standard text presents all the principles and practices readers need for a solid grounding in all aspects of clinical microbiology—bacteriology, mycology, parasitology, and virology. Comprehensive, easy-to-understand, and filled with high quality images, the book covers cell and structure identification in more depth than any other book available. This fully updated Seventh Edition is enhanced by new pedagogy, new clinical scenarios, new photos and illustrations, and all-new instructor and student resources.

Bailey and Scott's Diagnostic Microbiology

PROF. DR. ELKE ANKIAM Food control is essential for consumer protection. Due to the fact that agriculture and food technology have increased rapidly in the past the analytical problems concerning food have become more complex. The consumer expects competitively priced food of consistently high quality. The main consumer concerns are food safety and food quality including authenticity proof. Many national or international official, validated, reference or routine methods are existing. Food be performed rapidly especially in the fields of microbiological control has to contamination and customs control. This handbook describes many kits, instruments and systems used for quality control of food. The tools listed are not only restricted to validated analytical methods but are also foreseen for routine and screening methods. In addition, an address list of manufacturers, distributors and sales agencies is given together with a list and information concerning selected expert laboratories. In this edition, emphasis is put on validation procedures of three organizations (AOAC, AFNOR and Microval). The purpose of this book is to facilitate the purchase and use of kits needed for food analysis and is therefore an important help for food analysts.

Nucleic Acid Amplification Technologies

This book highlights the triumph of MALDI-TOF mass spectrometry over the past decade and provides insight into new and expanding technologies through a comprehensive range of short chapters that enable the reader to gauge their current status and how they may progress over the next decade. This book serves as a platform to consolidate current strengths of the technology and highlight new frontiers in tandem MS/MS that are likely to eventually supersede MALDI-TOF MS. Chapters discuss: Challenges of Identifying Mycobacterium to the Species level Identification of Bacteroides and Other Clinically Relevant Anaerobes Identification of Species in Mixed Microbial Populations Detection of

Resistance Mechanisms Proteomics as a biomarker discovery and validation platform Determination of Antimicrobial Resistance using Tandem Mass Spectrometry

ASM News

Mycological studies of yeasts are entering a new phase, with the sequencing of multiple fungal genomes informing our understanding of their ability to cause disease and interact with the host. At the same time, the ongoing use of traditional methods in many clinical mycology laboratories continues to provide information for the diagnosis and treatment of patients. This volume reviews various aspects of pathogenic yeasts and what is known about their molecular and cellular biology and virulence, in addition to looking at clinical and laboratory findings. As each chapter is written by a leading expert in the field, this book summarizes in one volume much of the latest research on several pathogenic yeasts, including *Candida*, *Cryptococcus*, *Malassezia* and yeasts of emerging importance. The importance of laboratory diagnosis, antifungal susceptibility testing, antifungal resistance and yeast diseases in animals are reviewed.

Diagnostico Microbiologico

Includes information on infection detection and prevention and control, diagnostic technologies, bacteriology, antibacterial, antiviral, antifungal, and antiparasitic agents and susceptibility test methods, virology, mycology, and parasitology.

Clinical Microbiology Procedures Handbook

This comprehensive manual serves as a source of basic and clinical information for the physician regarding viruses and viral diseases and as a reference source for laboratorians to aid in the diagnosis of virus infection by providing detailed information on individual techniques. Section one of the manual describes laboratory procedures to detect viruses, including quality control in the laboratory and specimen handling. Individual chapters provide information or a detailed protocol on how to set up and test samples for viral diagnosis. The second section focuses on the viral agents and the third is a reference of the various federal, state, and local laboratories that diagnose virus infections.

Clinical and Pathogenic Microbiology

Streptococcus: Advances in Research and Treatment: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about *Streptococcus*. The editors have built *Streptococcus: Advances in Research and Treatment: 2011 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about *Streptococcus* in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Streptococcus: Advances in Research and Treatment: 2011 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Koneman's Color Atlas and Textbook of Diagnostic Microbiology

Contains the final statistical record of companies which merged, were acquired, went bankrupt or otherwise disappeared as private companies.

Rapid Food Analysis and Hygiene Monitoring

Inspired by the pace of change in the taxonomy of the aerobic endospore-forming bacteria, the "Bacillus 2000" symposium on which this book is based was held in Bruges, Belgium, in August 2000, and was supported by the Federation of European Microbiological Societies, the Belgian Society for Microbiology, and several commercial sponsors. Bringing taxonomists interested in *Bacillus* and its relatives together with people who work with these organisms in medicine, agriculture, and industry, allowed those attending to appreciate the overlaps and interactions of their areas of expertise, in the absence of any comprehensive treatment of the current systematics of the group. The meeting was a great success, and has resulted in the production of these proceedings, *Applications and Systematics of Bacillus and Relatives*, providing an up-to-date and comprehensive treatise on the classification,

identification and applications of the aerobic endospore-forming bacteria; it is an essential reference for all microbiologists interested in these organisms. Valuable reference work for all those interested in the systematics of *Bacillus* and its relatives. Produced in response to the successful *Bacillus* 2000 meeting in Bruges and was supported by the Federation of European Microbiological Societies, the Belgian Society for Microbiology, and several commercial sponsors. Of use to those working in fields as diverse as medicine, agriculture, food and industry. Comprehensive and up-to-date analysis of the systematics of these organisms. Includes the application of sophisticated chemotaxonomic and genetic characterization methods.

MALDI-TOF and Tandem MS for Clinical Microbiology

Laboratory products and services currently available in the United States. Product information section arranged alphabetically by companies. Entries include description and ordering information. Indexes by manufactures; brand names; and test, equipment, and services. Product photograph section.

Pathogenic Yeasts

Designed for associate-degree MLT/CLT programs and baccalaureate MT/CLS programs, this textbook presents the essentials of clinical microbiology. It provides balanced coverage of specific groups of microorganisms and the work-up of clinical specimens by organ system, and also discusses the role of the microbiology laboratory in regard to emerging infections, healthcare epidemiology, and bioterrorism. Clinical case studies and self-assessment questions show how to incorporate the information into everyday practice. More than 400 illustrations and visual information displays enhance the text. Essentials boxes, chapter outlines, key terms, summaries, and other study aids help students retain information. A bound-in CD-ROM includes additional review questions, case studies, and Web links.

Manual of Clinical Microbiology

Clinical Virology Manual