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Includes a revised taxonomic outline for the Actinobacteria or the high G+C Gram positives is based upon the SILVA project as well as a description of greater than 200 genera in 49 families. Includes many medically and industrially important taxa. The book describes the effects of air pollutants, from the indoor and outdoor spaces, on the human physiology. Air pollutants can influence inflammation biomarkers, can influence the pathogenesis of chronic cough, can influence reactive oxygen species (ROS) and can induce autonomic nervous system interactions that modulate cardiac oxidative stress and cardiac electrophysiological changes, can participate in the onset and exacerbation of upper respiratory and cardio-vascular diseases, can lead to the exacerbation of asthma and allergic diseases. The book also presents how the urban environment can influence and modify the impact of various pollutants on human health. A collection of readily reproducible classic and emerging molecular methods for the laboratory isolation and identification of the pathogens, viruses, and parasites that cause food-borne disease. Among the pathogens covered are specific bacteria, including *Salmonella* spp., *Campylobacter* spp., *Listeria* spp., and *Bacillus* spp.; viruses, including noroviruses and enteroviruses; and parasites, including *Cryptosporidium* and seafood nematode worms. The protocols follow the successful Methods in Biotechnology™ series format, each offering step-by-step laboratory instructions, an introduction outlining the principles behind the technique, lists of the necessary equipment and reagents, and tips on troubleshooting and avoiding known pitfalls. 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. Perfect your lab skills with the gold standard in microbiology! Serving as both the #1 bench reference for practicing microbiologists and as a favorite text for students in clinical laboratory science programs, Bailey & Scott's Diagnostic Microbiology, 14th Edition covers all the topical information and critical thinking practice you need for effective laboratory testing. This new edition also features hundreds step-by-step procedures, updated visuals, new case studies, and new material on the latest trends and equipment in clinical microbiology — including automation, automated streaking, MALDI-TOF, and incubator microscopes. It's everything you need to get quality lab results in class and in clinical practice! More than 800 detailed, full-color illustrations aid comprehension and help in visualizing concepts. Expanded sections on parasitology, mycology, and virology eliminate the need to purchase separate books on this material. General and Species boxes in the organism chapters highlight the important topics that will be discussed in the chapter. Case studies provide the opportunity to apply information to a variety of diagnostic scenarios, and help improve decision-making and critical thinking skills. Hands-on procedures include step-by-step instructions, full-color photos, and expected results. A glossary of terms is found at the back of the book for quick reference. Learning objectives begin each chapter, offering a measurable outcome to achieve by the completing the material. Learning resources on the Evolve companion website enhance learning with review questions and procedures. NEW! Coverage of automation, automated streaking, MALDI-TOF, and incubator microscopes keeps you in the know on these progressing topics. NEW! Updated images provide a more vivid look into book content and reflect the latest procedures. NEW! Thoroughly reviewed and updated chapters equip you with the most current information. NEW! Significant lab manual improvements provide an excellent learning resource at no extra cost. NEW! 10 extra case studies on the Evolve companion website offer more opportunities to improve critical thinking skills. Contains the final statistical record of companies which merged, were acquired, went bankrupt or otherwise disappeared as private companies. Intended to guide clinical microbiologists in the selection, performance, and interpretation of laboratory procedures for diagnostic and therapeutic applications. A reference source detailing what is done in clinical microbiology laboratories. 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. Texto completo de microbiologia para los estudiantes y los profesionales de los laboratorios clinicos, esta duod,cima edicion de Diagnostico Microbiologico de Bailey & Scott reafirma su reputacion como un clasico de la especialidad. Se enfoca de manera clara y concisa a los aspectos generales de la microbiologia clinica, sus fundamentos cientificos y de laboratorio; el diagnostico por aparatos y sistemas; los estudios de bacteriologia, parasitologia, micologia y virologia. The definitive clinical virology resource for physicians and clinical laboratory virologists The clinical virology field is rapidly evolving and, as a result, physicians and clinical laboratory virologists must have a reliable reference tool to aid in their ability to identify and diagnose viral infections to prevent future outbreaks. In this completely revised edition of the Clinical Virology Manual, Editor in Chief, Michael Loeffelholz, along with Section Editors, Richard Hodinka, Benjamin Pinsky, and Stephen Young, have compiled expert perspectives of a renowned team of clinical virology experts and divided these contributions into three sections to provide the latest information on the diagnosis of viral infections, including ebola, HIV and Human papillomavirus state of the art diagnostic technologies, including next-generation sequencing and nucleic acid amplification methods taxonomy of clinically important viruses such as polyomaviruses and zoonotic viruses This comprehensive reference also includes three appendices with vital information on reference virology laboratories at the Centers for Disease Control and Prevention, state and local public health laboratories, and international reference laboratories and laboratory systems. Additionally, a new section "Diagnostic Best Practices," which summarizes recommendations for diagnostic testing, and cites evidence-based guidelines, is included in each viral pathogens chapter. Clinical Virology Manual, Fifth Edition serves as a reference source to healthcare professionals and laboratorians in providing clinical and technical information regarding viral diseases and the diagnosis of viral infections. 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. 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. Introduction to Diagnostic Microbiology for the Laboratory Sciences, Second Edition provides a concise study of clinically significant microorganisms for the medical laboratory student and laboratory practitioner. 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. More than 800 high-quality, full-color illustrations help you visualize concepts. Expanded sections on parasitology, mycology, and virology allow you to use just one book, eliminating the need to purchase other microbiology textbooks for these topics. Hands-on procedures show exactly what takes place in the lab, including step-by-step methods, photos, and expected results. Case studies allow you to apply your knowledge to diagnostic scenarios and to develop critical thinking skills. Genera and Species boxes provide handy, at-a-glance summaries at the beginning of each organism chapter. Learning objectives at the beginning of each chapter provide measurable outcomes to achieve by completing the chapter material. A glossary defines terms at the back of the book and on the Evolve companion website. New! Updated content includes infectious disease trends and new illustrations such as culture plate images of real specimens, complex gram stains, lactophenol cotton blue microscopy, and more. NEW COVID-19 information has been added. UPDATED topics include the Human Microbiome Project, expanded MALDI-TOF applications and molecular diagnostics in conjunction with traditional microbiology, additional streps, and significant news in mycology. EXPANDED glossary defines terms on the Evolve companion website. 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. 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. The new 12th edition of Bailey & Scott's Diagnostic Microbiology solidifies its reputation as the classic text in the field of microbiology. This new edition features the same comprehensive, authoritative content - and adds new and updated material throughout. The team of authors includes three well-respected clinical microbiologists, all of whom have experience both in the classroom and the clinical laboratory. Manual for the isolation, identification and characterization of avian pathogens Includes a description of the Alpha-, Beta-, Delta-, and Epsilonproteobacteria (1256 pages, 512 figures, and 371 tables). This large taxa include many well known medically and environmentally important groups. Especially notable are *Acetobacter*, *Agrobacterium*, *Aquaspirillum*, *Brucella*, *Burkholderia*, *Caulobacter*, *Desulfovibrio*, *Gluconobacter*, *Hyphomicrobium*, *Leptothrix*, *Myxococcus*, *Neisseria*, *Paracoccus*, *Propionibacter*, *Rhizobium*, *Rickettsia*, *Sphingomonas*, *Thiobacillus*, *Xanthobacter* and 268 additional genera. O Manual de métodos de análise microbiológica de alimentos e água é um manual de laboratório ilustrado contendo os métodos recomendados por órgãos internacionais (APHA, FDA, USDA, AOAC, ISO) aceitos pela Agência Nacional de Vigilância Sanitária (ANVISA). Cada capítulo traz uma revisão profunda e atualizada sobre o(s) microrganismo(s) tratado(s), incluindo posição taxonômica, mudanças na nomenclatura, características morfológicas e bioquímicas e epidemiologia. Oferece também comparações esquemáticas entre os métodos disponíveis, destacando suas diferenças e similaridades. A apresentação didática do passo a passo dos métodos em figuras esquemáticas permite uma rápida apreensão dos procedimentos, facilitando sua execução no dia a dia dos laboratórios. Known as the #1 bench reference for practicing microbiologists and an excellent text for students in clinical laboratory science programs, Bailey & Scott's Diagnostic Microbiology, 13th Edition helps you develop and refine the skills you need for effective laboratory testing. In-depth information is useful and easily accessible, with step-by-step instructions for all the procedures. This edition features more than 20 NEW chapters plus updated material on the newest advances and the latest trends in clinical microbiology. Written by expert Dr. Patricia Tille, this classic reference addresses the topics and issues most relevant to you and your success on the job. Hands-on procedures include step-by-step instructions, full-color photos, and expected results, helping you achieve more accurate results. Case studies give you the opportunity to apply your skills in a variety of diagnostic scenarios and help improve your decision-making and critical thinking skills. Genera and Species boxes highlight all of the organisms to be discussed in each chapter, including the current name of the species as well as any previous names. Student resources on Evolve enhance your learning with review questions and procedures. Convenient, easy-to-read tables

summarize key information. Detailed, full-color illustrations aid comprehension and help you visualize concepts. A glossary of terms is found at the back of the book for quick reference. NEW! Learning objectives begin each chapter, giving you a measurable outcome to achieve by the completing the material. NEW! Review questions on the Evolve companion website are tied to learning objectives, and enhance your understanding and retention of chapter content. NEW! Reader-friendly chapters cover groups of related organisms rather than addressing all at once, including the parasitology, mycology, and virology chapters. The Practical Handbook of Microbiology presents basic knowledge about working with microorganisms in a clear and concise form. It also provides in-depth information on important aspects of the field—from classical microbiology to genomics—in one easily accessible volume. This new edition retains the easy-to-use format of previous editions, with a logical presentation of frequently used reference data that enables readers to rapidly locate the information needed. New chapters have been included in this edition, including a noteworthy one on the business aspects of microbiology that has been added to address the needs of investors looking to understand the science behind companies that they are contemplating funding and scientists that are interested in commercializing their research. In addition, chapters have been added on new microorganism-based disease and pathogenic mechanisms. All chapters from the previous edition have been revised and updated. Major topics covered include almost all studied bacteria, and introductions to fungi, parasites, and viruses, as well as methods of culture collection, enumeration, and preservation of microorganisms, diagnostic medical microbiology, mechanisms of antimicrobial agents, and antibiotics and antifungal agents. Although this book will be of use to anyone interested in the subject matter, it will be of particular benefit to specialized microbiologists as well as those who simply use microbiology as an adjunct to their own discipline, in finding relevant information quickly and easily. 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. In the clinical microbiology laboratory, blood is a critical diagnostic sample that, in the majority of cases is sterile (or is it?). However, when microbes gain access to and multiply in the bloodstream, it can result in life-threatening illness including sepsis. Mortality rates from bloodstream infection and sepsis range from 25% to 80%, killing millions of people annually. Blood cultures are a vital technology used in the microbiology laboratory to isolate and identify microbes and predict their response to antimicrobial therapy. The Dark Art of Blood Cultures, edited by Wm. Michael Dunne, Jr., and Carey-Ann D. Burnham, surveys the entire field of blood culture technology, providing valuable information about every phase of the process, from drawing samples to culture methods to processing positive cultures. The Dark Art of Blood Cultures is organized around several major topics. History of blood culture methods. Details the timeline of blood culture methods from manual through automated and describes the technological development of the leading automated blood culture systems (Bactec, BacT/Alert, and VersaTREK). Manual and automated blood culture methods. Critiques manual and automated methods for setting up blood cultures for adult and pediatric patients. Detection of pathogens directly from blood specimens. Describes currently available CE marked and FDA-cleared commercial tests using both phenotypic and genotypic markers, including their strengths and limitations. The workflow of culturing blood. Includes best practices from specimen collection to culture system verification, processing positive cultures for microbe identification and antibiotic susceptibility determination, along with the epidemiology of positive blood cultures and the value of postmortem blood cultures. Microorganisms in the blood. Examines the concept of a blood microbiome in healthy and diseased individuals. The Dark Art of Blood Cultures is a resource that clinicians, laboratorians, lab directors, and hospital administrators will find engaging and extremely useful. This detailed volume presents hands-on technological protocols used to target an array of cell-secreted extracellular vesicles (EVs) in a variety of biological systems. Beginning with methods for EV purification and analysis, the book continues with sections on the study of EV functions as well as specific systems and models allowing for the study of EVs of different origin. Written for the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step and readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Cell-Secreted Vesicles: Methods and Protocols serves as an ideal guide to conducting systematic assays in an effort to further our understanding of the mode of assembly, secretion, and targeting of EVs which will serve eventually as new therapeutic openings. Written by the world's leading scientists and spanning over 400 articles in three volumes, the Encyclopedia of Food Microbiology, Second Edition is a complete, highly structured guide to current knowledge in the field. Fully revised and updated, this encyclopedia reflects the key advances in the field since the first edition was published in 1999. The articles in this key work, heavily illustrated and fully revised since the first edition in 1999, highlight advances in areas such as genomics and food safety to bring users up-to-date on microorganisms in foods. Topics such as DNA sequencing and E. coli are particularly well covered. With lists of further reading to help users explore topics in depth, this resource will enrich scientists at every level in academia and industry, providing fundamental information as well as explaining state-of-the-art scientific discoveries. This book is designed to allow disparate approaches (from farmers to processors to food handlers and consumers) and interests to access accurate and objective information about the microbiology of foods. Microbiology impacts the safe presentation of food. From harvest and storage to determination of shelf-life, to presentation and consumption. This work highlights the risks of microbial contamination and is an invaluable go-to guide for anyone working in Food Health and Safety. Has a two-fold industry appeal (1) those developing new functional food products and (2) to all corporations concerned about the potential hazards of microbes in their food products. Dyslipidemia has a complex pathophysiology consisting of various genetic, lifestyle, and environmental factors. It has many adverse health impacts, notably in the development of chronic non-communicable diseases. Significant ethnic differences exist due to the prevalence and types of lipid disorders. While elevated serum total- and LDL-cholesterol are the main concern in Western populations, in other countries hypertriglyceridemia and low HDL-cholesterol are more prevalent. The latter types of lipid disorders are considered as components of the metabolic syndrome. The escalating trend of obesity, as well as changes in lifestyle and environmental factors will make dyslipidemia a global medical and public health threat, not only for adults but for the pediatric age group as well. Several experimental and clinical studies are still being conducted regarding the underlying mechanisms and treatment of dyslipidemia. The current book is providing a general overview of dyslipidemia from diverse aspects of pathophysiology, ethnic differences, prevention, health hazards, and treatment. Practical Handbook of Microbiology, 4th edition provides basic, clear and concise knowledge and practical information about working with microorganisms. Useful to anyone interested in microbes, the book is intended to especially benefit four groups: trained microbiologists working within one specific area of microbiology; people with training in other disciplines, and use microorganisms as a tool or "chemical reagent"; business people evaluating investments in microbiology focused companies; and an emerging group, people in occupations and trades that might have limited training in microbiology, but who require specific practical information. Key Features Provides a comprehensive compendium of basic information on microorganisms—from classical microbiology to genomics. Includes coverage of disease-causing bacteria, bacterial viruses (phage), and the use of phage for treating diseases, and added coverage of extremophiles. Features comprehensive coverage of antimicrobial agents, including chapters on anti-fungals and anti-virals. Covers the Microbiome, gene editing with CRISPR, Parasites, Fungi, and Animal Viruses. Adds numerous chapters especially intended for professionals such as healthcare and industrial professionals, environmental scientists and ecologists, teachers, and businesspeople. Includes comprehensive survey table of Clinical, Commercial, and Research-Model bacteria. THE authoritative guide for clinical laboratory immunology For over 40 years the Manual of Molecular and Clinical Laboratory Immunology has served as the premier guide for the clinical immunology laboratory. From basic serology testing to the present wide range of molecular analyses, the Manual has reflected the exponential growth in the field of immunology over the past decades. This eighth edition reflects the latest advances and developments in the diagnosis and treatment of patients with infectious and immune-mediated disorders. The Manual features detailed descriptions of general and specific methodologies, placing special focus on the interpretation of laboratory findings, and covers the immunology of infectious diseases, including specific pathogens, as well as the full range of autoimmune and immunodeficiency diseases, cancer, and transplantation. Written to guide the laboratory director, the Manual will also appeal to other laboratory scientists, especially those working in clinical immunology laboratories, and pathologists. It is also a useful reference for physicians, mid-level providers, medical students, and allied health students with an interest in the role that immunology plays in the clinical laboratory. In recent years, advanced molecular techniques in diagnostic microbiology have been revolutionizing the practice of clinical microbiology in the hospital setting. Molecular diagnostic testing in general and nucleic acid-based amplification methods in particular have been heralded as diagnostic tools for the new millennium. This third edition covers not only the most recent updates and advances, but details newly invented omic techniques, such as next generation sequencing. It is divided into two distinct volumes, with Volume 1 describing the techniques, and Volume 2 addressing their applications in the field. In addition, both volumes focus more so on the clinical relevance of the test results generated by these techniques than previous editions. In this issue of Clinics in Laboratory Medicine, guest editors Drs. Christopher P. Holstege and Joshua D. King bring their considerable expertise to the topic of COVID-19 Molecular Testing and Clinical Correlates. Top experts in the field cover key topics such as point-of-care molecular assays for SARS-CoV-2; strategies for scaling up SARS-CoV-2 molecular testing capacity; cycle threshold values from SARS-CoV-2 PCR assays; and more. Contains 12 relevant, practice-oriented topics including analytic and clinical performance of major commercial SARS-CoV-2 PCR assays in the United States; isothermal assays for SARS-CoV-2 detection; rapid antigen assays for SARS-CoV-2; approaches to deployment of molecular testing for SARS-CoV-2 in resource-limited settings; and more. Provides in-depth clinical reviews on COVID-19 molecular testing and clinical correlates, offering actionable insights for clinical practice. Presents the latest information on this timely, focused topic under the leadership of experienced editors in the field. Authors synthesize and distill the latest research and practice guidelines to create clinically significant, topic-based reviews. The most authoritative, comprehensive reference in the field. • Sets the standard for state-of-the-science laboratory practice. • A collaborative effort of 22 editors and more than 260 authors from around the world, all experienced researchers and practitioners in medical and diagnostic microbiology. • Includes 149 chapters of the latest research findings, infectious agents, methods, practices, and safety guidelines. • Indispensable to clinical microbiologists, laboratory technologists, and infectious disease specialists in hospitals, clinics, reference laboratories, and more Includes a description of the Alpha-, Beta-, Delta-, and Epsilonproteobacteria (1256 pages, 512 figures, and 371 tables). This large taxa include many well known medically and environmentally important groups. Especially notable are Acetobacter, Agrobacterium, Aquospirillum, Brucella, Burkholderia, Caulobacter, Desulfobivrio, Gluconobacter, Hyphomicrobium, Leptothrix, Myxococcus, Neisseria, Paracoccus, Propionibacter, Rhizobium, Rickettsia, Sphingomonas, Thiobacillus, Xanthobacter and 268 additional genera.