

Veterinary Microbiology And Microbial Disease

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Veterinary Microbiology and Microbial Disease *John Wiley & Sons*

Microbiology is one of the core subjects for veterinary students, and since its first publication in 2002, Veterinary Microbiology and Microbial Disease has become an essential text for students of veterinary medicine. Fully revised and expanded, this new edition updates the subject for pre-clinical and clinical veterinary students in a comprehensive manner. Individual sections deal with bacteriology, mycology and virology. Written by an academic team with many years of teaching experience, the book provides concise descriptions of groups of microorganisms and the diseases which they cause. Microbial pathogens are discussed in separate chapters which provide information on the more important features of each microorganism and its role in the pathogenesis of diseases of animals. The international and public health significance of these pathogens are reviewed comprehensively. The final section is concerned with the host and is organized according to the body system affected. Tables, boxes and flow diagrams provide information in an easily assimilated format. This edition contains new chapters on molecular diagnostics and on infectious conditions of the skin, cardiovascular system, urinary tract and musculoskeletal system. Many new colour diagrams are incorporated into this edition and each chapter has been updated. Key features of this edition: Twelve new chapters included Numerous new illustrations Each chapter has been updated Completely re-designed in full colour Fulfils the needs of veterinary students and academics in veterinary microbiology Companion website with figures from the book as Powerpoints for viewing or downloading by chapter: www.wiley.com/go/quinn/veterinarymicrobiology Veterinary Microbiology and Microbial Disease remains indispensable for all those studying and teaching this essential component of the veterinary curriculum.

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Veterinary Microbiology *John Wiley & Sons*

Veterinary Microbiology, Third Edition is a comprehensive reference on the bacterial, fungal, and viral pathogenic agents that cause animal disease. Now in full color with improved images throughout, the new edition has been thoroughly updated to reflect information from current research and diagnostic and clinical publications. Key changes include a review of microbial cell structure and function and increased emphasis on the key points of pathogenesis and host responses to infection. Organized into four sections, the Third Edition begins with an updated and expanded introductory section on infectious disease pathogenesis, diagnosis and clinical management. The second section covers bacterial and fungal pathogens, and the third section describes viral diseases and viruses. The final section presents a systematic approach of describing infection and disease of animals. Equally useful for beginning veterinary students and seasoned practitioners, Veterinary Microbiology offers a thorough introduction and reference text

for veterinary infectious disease.

Veterinary Microbiology and Microbial Disease

Concise Review of Veterinary Microbiology *John Wiley & Sons*

Updated to reflect the latest developments in the field, "Concise Review of Veterinary Microbiology, Second Edition," presents essential information on veterinary microbiology for students and those requiring a refresher on key topics relating to microbial diseases in animals. Morphological, cultural and other descriptive features of pathogenic microorganisms are described, together with their habitats and aetiological roles in disease production in animals and, where appropriate, in the human population. Key features There are five sections covering bacteriology, mycology, virology, biosecurity and other aspects of infectious diseases Provides concise, yet comprehensive information on pathogenic microorganisms of importance in veterinary medicine, the diseases which they cause, their diagnosis and control The 79 short chapters in this book include 13 new chapters on antibacterial resistance, structure and function of the immune system, antifungal chemotherapy, antiviral chemotherapy, principles of biosecurity and a number of topics related to the control and prevention of infectious diseases This latest edition uses updated nomenclature and includes detailed diagrams now in full colour, as well as comprehensive tables Provides veterinary students, veterinary technician and nursing students, and practitioners alike with an essential resource for the review of all aspects of veterinary microbiology.

APPLIED VETERINARY MICROBIOLOGY AND MICROBIAL DISEASE.

Veterinary Microbiology and Microbial Disease *Wiley-Blackwell*

Veterinary Microbiology is one of the core subjects for veterinary students. This is a core textbook covering every aspect of veterinary microbiology for students in both paraclinical and clinical years. The clinical applications to farm and companion animals, which are of relevance to the veterinarians are emphasised. In each case there is a concise description of the groups of micro-organisms, the diseases they produce, immunological aspects and a summary of infectious diseases based on their main clinical signs. Unlike other microbiology books this one gives equal weighting to bacteriology, mycology and virology. The use of tables throughout means that information is easily accessible.

Veterinary Microbiology

Bacterial and Fungal Agents of Animal Disease *Elsevier Health Sciences*

Containing the latest information on pathogenesis and diagnosis, Veterinary Microbiology addresses both specific, defined problems, as well as trends in host/parasite interaction. This book is a complete reference on microbial biology, diseases, diagnosis, prevention, and control. It also provides a foundation of knowledge on pathogens and how they interact with hosts. Contains a comprehensive, up-to-date overview of bacterial and fungal agents that cause animal disease, including recently identified organisms as well as the pathogenesis of emerging diseases. Features more than 100 full-color illustrations to visually reinforce key concepts. The book is logically organized for ease of use and quick reference in the clinical setting. Addresses diseases that can affect animal productivity, both for individual animals as well as herd health. Discusses the implications of various organisms in biological warfare and bioterrorism.

Pathogenesis of Bacterial Infections in Animals *John Wiley & Sons*

This much-anticipated third edition again consolidates the knowledge of more than twenty experts on pathogenesis of animal disease caused by various species or groups of bacteria. Emphasizing pathogenic events at the molecular and cellular levels, the editors and contributors place these developments in the context of the overall picture of disease. Pathogenesis of Bacterial Infections in Animals, Third edition, updates and expands the content of the second edition and includes cutting-edge information from the most current research. Comments on previous editions: "...highly recommended." --The Veterinary Record "...a comprehensive, complete and easy-to-use source of information." --Veterinary Microbiology "...recommended for graduate students and specialists in microbiology, pathology and infectious disease." --U.S. Animal Health Association Newsletter "...a wonderful book." --Journal of the American Veterinary Medical Association "...highly recommended." --The Cornell Veterinarian Graduate students, faculty, researchers, and specialists in microbiology, pathology, and infectious diseases will benefit from this highly-detailed and expanded edition of a popular and well-read veterinary text.

Veterinary Microbiology

Bacterial and Fungal Agents of Animal Disease *W B Saunders Company*

Containing the latest information on pathogenesis and diagnosis, Veterinary Microbiology addresses both specific, defined problems, as well as trends in host/parasite interaction. This book is a complete reference on microbial biology, diseases, diagnosis, prevention, and control. It also provides a foundation of knowledge on pathogens and how they interact with hosts. Contains a comprehensive, up-to-date overview of bacterial and fungal agents that cause animal disease, including recently identified organisms as well as the pathogenesis of emerging diseases. Features more than 100 full-color illustrations to visually reinforce key concepts. The book is logically organized for ease of use and quick reference in the clinical setting. Addresses diseases that can affect animal productivity, both for individual animals as well as herd health. Discusses the implications of various organisms in biological warfare and bioterrorism.

Clinical Veterinary Microbiology *Mosby*

Veterinary Microbiology *Wiley-Blackwell*

The most recent revision of this comprehensive text covers the bacterial, fungal, and viral pathogenic agents that are significant causes of animal disease. The focus includes pathogenic mechanisms and processes in infectious diseases; methods of diagnosis; and principles of resistance, prevention, and therapy. Veterinary Microbiology, Second Edition is now organized in four sections according to the most appropriate methods of instruction. Section 1 deals with the general characteristics of the host- parasite relationship, laboratory diagnosis of conditions involving an infectious etiology, antimicrobial treatment, and prevention of infectious disease. Sections 2 (bacteria and fungi) and 3 (viruses) present the infectious agents that affect the veterinary species. The chapters dealing with the bacterial agents are grouped mainly by morphology, and their gram-staining characteristics. The fungal agents are grouped mainly by morphologic characteristics (yeast, mold). The viruses are grouped along taxonomic grounds. Section 4, an enhancement new to this edition, deals with the infectious agents in the context of the host. This section is organized by organ system. Each organ system is discussed first as a microbial habitat, followed by discussion of those infectious agents that mainly affect that particular system. In addition to serving as a resource for veterinary students, Veterinary Microbiology, Second Edition also serves as a convenient reference for veterinarians and veterinary scientists whose main line of activity and expertise is outside the areas of microbiology.

Microbial Endocrinology

Interkingdom Signaling in Infectious Disease and Health *Springer Science & Business Media*

Microbial endocrinology represents a newly emerging interdisciplinary field that is formed by the intersection of the fields of neurobiology and microbiology. This book will introduce a new perspective to the current understanding not only of the factors that mediate the ability of microbes to cause disease, but also to the mechanisms that maintain normal homeostasis. The discovery that microbes can directly respond to neuroendocrine hormones, as evidenced by increased growth and production of virulence-associated factors, provides for a new framework with which to investigate how microorganisms interface not only with vertebrates, but also with invertebrates and even plants. The reader will learn that the neuroendocrine hormones that one most commonly associates with mammals are actually found throughout the plant, insect and microbial communities to an extent that will undoubtedly surprise many, and most importantly, how interactions between microbes and neuroendocrine hormones can influence the pathophysiology of infectious disease.

Veterinary Microbiology and Microbial Disease

The Clostridia

Molecular Biology and Pathogenesis *Academic Press*

The clostridia are a group of bacteria of considerable medical and economic importance and include species responsible for generating the most potent toxins known to humans. The Clostridia: Molecular Biology and Pathogenesis is a unique work, comprising the most complete reference on the clostridia for over 20 years, bringing together the results from some of the most innovative and exciting research in the past decade. Using a principle-oriented rather than taxonomic approach, the results from molecular biology research are placed in the context of their clinical significance, and the disease process as a whole. This state-of-the-art work is truly comprehensive, covering and integrating the diverse topics of genetics, physiology, pathogenesis and cell biology. Written and edited by world-renowned authorities, material is presented to give the reader an up-to-date knowledge of the pathogenic species of this important genus. Background information is followed by details of the genetics, molecular biology, biochemistry and disease mechanisms. The structure, function and mode of action of toxins and other virulence determinants is clearly presented. As such, this work will prove essential for students, teachers, research microbiologists, infectious disease clinicians, toxin specialists, and all those working in medical or veterinary bacteriology, microbial genetics and the pharmaceutical industries. Covers appropriate medical and veterinary topics Contains authoritative contributions by international experts Presents the current state of knowledge and areas for future research Truly comprehensive--covers topics from molecular biology and physiology

Diagnostic Procedure in Veterinary Bacteriology and Mycology *Academic Press*

This new edition of a standard reference includes classical methods and information on newer technologies, such as DNA hybridization and monoclonal antibodies.

Essentials of Veterinary Bacteriology and Mycology

Pathologic Basis of Veterinary Disease - E-Book *Elsevier Health Sciences*

With over 2,000 full-color illustrations, Pathologic Basis of Veterinary Disease, 5th Edition provides complete coverage of both general pathology and pathology of organ systems in one convenient resource. In-depth explanations cover the responses of cells, tissues, and organs to injury and infection. Expert researchers James F. Zachary and M. Donald McGavin keep you up to date with the latest advances in cellular and molecular pathology plus expanded coverage of genetics and disease, incorporating the newest insights into the study of disease mechanisms, genesis, and progression. Already the leading reference for pathology, this edition also includes an enhanced website with images of less common diseases and and guidelines for performing a complete, systematic necropsy. Each chapter is consistently organized, presenting information on structure, function,

portals of entry, defense mechanisms, responses to injury, and diseases organized by species. Full-color illustrations, schematics, flow charts, and diagrammatic representations of disease processes make it easier to understand difficult concepts. Discussions of pathologic processes and individual disorders are integrated with the latest established information available. Clear, up-to-date explanations of disease mechanisms describe the cell, tissue, and organ response to injury and infection. Over 20 recognized experts deliver the most relevant information, whether you're a practitioner, student, or preparing for the American College of Veterinary Pathology board examination. Updated content on cellular and organ system pathology provides the latest on the science of inflammation, cellular injury, molecular carcinogenesis, and pathogenesis. NEW topics include the genetic basis of disease, the monocyte-macrophage system, diseases of the ear, and disorders of ligaments and joints and of the peritoneum. NEW coverage of World Organization for Animal Health (OIE) reportable diseases ("foreign animal diseases") adds information on microorganisms that have catastrophic impact on livestock health and production. NEW Mechanisms of Microbial Infections chapter adds in-depth coverage of the means by which microbes encounter, colonize, and cause disease in animals in a chronological sequence of events. NEW and updated flow charts, schematic illustrations, and diagrams of disease processes summarize important information and clarify complex concepts. An enhanced companion website includes all the images from the book, plus additional images and schematic illustrations of common diseases; guidelines for performing a complete, systematic necropsy and appropriate sample acquisition for selected organ systems; and a glossary of terms to accompany selected organ systems.

Essentials of Veterinary Bacteriology and Mycology

Handbook of Veterinary Neurology - E-Book *Elsevier Health Sciences*

Handbook of Veterinary Neurology provides quick access to vital information on neurologic conditions in a wide range of species, including canine, feline, bovine, caprine, equine, ovine, and porcine. A problem-oriented approach makes it easy to diagnose and treat neurologic problems in small and large animals. The coverage of disorders by problem, not by established disease diagnosis, emulates how animals present to the veterinary hospital and simplifies the formulation of a correct diagnosis. Within each chapter, discussions of neurologic disease include a review of the localization criteria and the diseases that can cause that problem, plus treatment and surgical techniques. Lead author Michael D. Lorenz brings decades of experience to neurologic assessment, using a diagnostic approach that requires minimal knowledge of neuroanatomy. A problem-based approach is organized by presenting sign rather than by condition, guiding you to logical conclusions regarding diagnosis and treatment. Algorithms diagram the logic necessary to localize lesions and to formulate diagnostic plans. Coverage of current diagnostic techniques includes the use of diagnostic tools, such as radiology, spinal fluid analysis, electrodiagnosis, and MR imaging. Case histories in each chapter present a problem and the results of the neurologic examination, then ask you to solve the problem by localizing the lesion, listing probable causes, and making a diagnostic plan. Answers are provided at the back of the book. A consistent format for each case history includes signalment, history, physical examination findings, and neurologic examination. A comprehensive appendix describes species and breeds that have a congenital predisposition for particular neurologic diseases. Extensive references make it easy to pursue in-depth research of more advanced topics. A companion website includes 20 narrated video clips with accompanying PowerPoint slides that correlate to the case histories in the book, covering neurologic assessment and clinical problems such as paresis of one limb, tetraparesis, stupor, seizures, ataxia of the head and limbs, and cranial nerve disorders. Two new co-authors, Jean Coates and Marc Kent, board-certified in neurology, enhance the credibility of this edition. A full-color design and numerous illustrations include enhanced images of neuroanatomy and pathology.

Atlas of the Clinical Microbiology of Infectious Diseases

Viral, Fungal and Parasitic Agents *CRC Press*

An Atlas of the Clinical Microbiology of Infectious Diseases, Volume Two: Viral, Fungal, and Parasitic Agents is the second of a series and partner to Volume One, which deals with Microbiological and Clinical Attributes. Filled with highly instructional visual images, this atlas covers typical and atypical presentations of viral, fungal and parasitic agents and offers insightful comments aiding their identification and clinical significance. Drawing on the expertise of a distinguished clinical microbiologist, it presents more than 240 colored photomicrographs derived from an extensive personal collection of slides depicting the salient and unusual presentations of microorganisms.

Genetics and Evolution of Infectious Diseases *Elsevier*

Genetics and Evolution of Infectious Diseases, Second Edition, discusses the constantly evolving field of infectious diseases and their continued impact on the health of populations, especially in resource-limited areas of the world. Students in public health, biomedical professionals, clinicians, public health practitioners, and decisions-makers will find valuable information in this book that is relevant to the control and prevention of neglected and emerging worldwide diseases that are a major cause of global morbidity, disability, and mortality. Although substantial gains have been made in public health interventions for the treatment, prevention, and control of infectious diseases during the last century, in recent decades the world has witnessed a worldwide human immunodeficiency virus (HIV) pandemic, increasing antimicrobial resistance, and the emergence of many new bacterial, fungal, parasitic, and viral pathogens. The economic, social, and political burden of infectious diseases is most evident in developing countries which must confront the dual burden of death and disability due to infectious and chronic illnesses. Takes an integrated approach to infectious diseases Includes contributions from leading authorities Provides the latest developments in the field of infectious disease

Textbook of Veterinary Microbiology

Clinical Veterinary Microbiology E-Book *Elsevier Health Sciences*

This beautifully illustrated, comprehensive reference provides concise information on the materials and methods of bacteriology, mycology, and virology. The book covers the collection, isolation, and culture of diagnostic specimens, with detailed notes on the biochemical, serological and other tests currently used to identify and distinguish between microbial pathogens. The new edition sets out to provide the most up-to-date account of all the clinically and economically important pathogens, including Bovine Spongiform Encephalomyelitis, Creutzfeldt-Jakob Disease, E-coli, and Salmonella. The clear, accessible format, together with the complete revision of the content, makes this a valuable resource. High quality full colour photography - Essential for accurate diagnosis Fully revised pathogenicity sections taking into account the major discoveries/incidences of the last 3-5 years Reclassification of viruses, including changes to nomenclature Appendices of Infectious Diseases - Fast access to vital information Unique and practical inclusion of virology, bacteriology and mycology in one text Greatly expanded chapter on viruses More on PRIONS (including BSE) Reclassification of viruses - many changes to nomenclature Fully revised pathogenicity sections Revised/complete coverage of E coli 0157 Revised Systems section Complete update of Infectious Diseases coverage in the appendices

Veterinary Microbiology

Bacterial and Fungal Agents of Animal Disease - Pageburst Retail *W B Saunders Company*

This is a Pageburst digital textbook; the product description may vary from the print textbook. Containing the latest information on pathogenesis and diagnosis, Veterinary Microbiology addresses both specific, defined problems, as well as trends in host/parasite interaction. This book is a complete reference on microbial biology, diseases, diagnosis, prevention, and control. It also provides a foundation of knowledge on pathogens and how they interact with hosts. Contains a comprehensive, up-to-date overview of bacterial and fungal agents that cause animal disease, including recently identified organisms as well as the pathogenesis of emerging diseases. Features more than 100 full-color illustrations to visually reinforce key concepts. The book is logically organized for ease of use and quick reference in the clinical setting. Addresses diseases that can affect animal productivity, both for individual animals as well as herd health. Discusses the implications of various organisms in biological warfare and bioterrorism.

Microbial Threats to Health

Emergence, Detection, and Response *National Academies Press*

Infectious diseases are a global hazard that puts every nation and every person at risk. The recent SARS outbreak is a prime example. Knowing neither geographic nor political borders, often arriving silently and lethally, microbial pathogens constitute a grave threat to the health of humans. Indeed, a majority of countries recently identified the spread of infectious disease as the greatest global problem they confront. Throughout history, humans have struggled to control both the causes and consequences of infectious diseases and we will continue to do so into the foreseeable future. Following up on a high-profile 1992 report from the Institute of Medicine, Microbial Threats to Health examines the current state of knowledge and policy pertaining to emerging and re-emerging infectious diseases from around the globe. It examines the spectrum of microbial threats, factors in disease emergence, and the ultimate capacity of the United States to meet the challenges posed by microbial threats to human health. From the impact of war or technology on disease emergence to the development of enhanced disease surveillance and vaccine strategies, Microbial Threats to Health contains valuable information for researchers, students, health care providers, policymakers, public health officials. and the interested public.

Polymicrobial Diseases *Amer Society for Microbiology*

Provides an overview of the current knowledge of polymicrobial diseases of multiple etiologic agents in both animals and humans. Explores the contribution to disease made by interacting and mutually reinforcing pathogens, which may involve bacteria, viruses, or parasites interacting with each other or bacteria interacting with fungi and viruses. Emphasis on identifying polymicrobial diseases, understanding the complex etiology of these diseases, recognizing difficulties in establishing methods for their study, identifying mechanisms of pathogenesis, and assessing appropriate methods of treatments.

Microbiology and Infectious Diseases on the Move *CRC Press*

The Medicine on the Move series provides fully flexible access to subjects across the curriculum in a unique combination of print and mobile formats ideal for the busy medical student and junior doctor. No matter what your learning style, whether you are studying a subject for the first time or revisiting it during exam preparation, Medicine on the

Veterinary Bacteriology

The book is written following the syllabus framed by Veterinary Council of India (VCI). It comprises historical introduction, morphology, classification, resistance, natural habitat, genome, isolation and colony characteristics, biochemical and antigenic properties, pathogenesis, disease produced and diagnosis of each bacterial genus associated with animal and human health. The book is intended to help BVSc and Post Graduate students of Veterinary Microbiology as well as the aspirants of ICAR-JRF, ICAR-NET/ARS examinations. Further, it will also help the person engaged as Veterinarian or in the laboratory for the diagnosis of animal diseases. As the book comprises the diagnostic technique for each bacterial genus ranging from staining parameters to molecular tools.

Health Maintenance of Cultured Fishes

Principal Microbial Diseases *CRC Press*

The text concentrates on the infectious viral and bacterial diseases that are most prevalent in aquaculture. Although much information has been derived from North American studies, important disease problems from other parts of the world are included. Also, where applicable, the influence of the various diseases on wild populations has been included. This book is intended for students and scientists who are interested in health maintenance of aquatic animals, aquatic pathobiology, and infectious diseases of fin fish. Hopefully, it will be used as a text for beginning fish pathologists and as a reference source for those of broader experience.

MCQs on Microbial Diseases in Veterinary Medicine

Antimicrobial Resistance

A One Health Perspective *BoD – Books on Demand*

Tackling the realities of the antimicrobial resistance (AMR) situation today is no longer uncommon. Many battles have been fought in the past since the discovery of antibiotics between man and microbes. In the tussle of new antibiotic modifications, the transmission of resistant genes, both vertically and horizontally unveils yet another resistant attribute for the microbe, for it only to be faced with a more powerful, wide spectrum antibiotic; the cycle continues-and the winner is yet to be known. This book aims to provide some insight into various molecular mechanisms, agricultural mitigation methods, and the One Health applications to maybe, just maybe, tip the scales towards us.

Microbial Pathogens and Human Diseases *CRC Press*

This book provides a concise but comprehensive description of human infectious diseases due to microbial pathogens, from a physicians and a microbiologists point of view, as well as providing an understanding of the use of microbial pathogens as biological weapons. It is indispensable for students, physicians, medical and nursing staff, and infecti

Medical Microbiology E-Book

A Guide to Microbial Infections *Elsevier Health Sciences*

Medical microbiology concerns the nature, distribution and activities of microbes and their impact on health and wellbeing. In spite of the introduction of many antimicrobial agents and immunisations, we continue to face major challenges in combatting infection, not least the gathering crisis in antimicrobial resistance. Now in a fully revised and updated 19th edition, Medical Microbiology provides comprehensive coverage of infection from the microbial perspective, combining a clear introduction to key principles with a focus explicitly geared to modern clinical practice. It provides ideal coverage for medical and biomedical students – with ‘Key Points’ boxes throughout to highlight the essentials – and sufficient detail to also inform specialists in training. Building on the success of previous editions, updates in Medical Microbiology 19e include: New and expanded coverage of hot topics and emerging areas important to clinical practice, including: Genomics The Human Microbiome Direct acting antiviral agents for the treatment of HCV infection Molecular methods in diagnostic microbiology Antibiotic Stewardship A new and improved downloadable eBook (from studentconsult) – for anytime access to the complete contents plus BONUS interactive learning materials: Clinical cases - to introduce how patients with infections present and help relate key principles to practice MCQs for each chapter - to check understanding and aid exam preparation

The Pathogenesis of Infectious Disease

Practical Clinical Microbiology and Infectious Diseases

A Hands-On Guide *CRC Press*

This book offers practical tips and essential guidance for trainees and specialists in clinical microbiology and infectious diseases and healthcare professionals interested in infection management to put theoretical knowledge into daily practice. Using common clinical situations and problems as a guide, the handbook is intended to support the healthcare professional from interpretation of laboratory results to consultation and infection control. Key Features Concisely covers the critical clinical microbiology and infectious disease topics, with an emphasis on translating theoretical knowledge into clinical practice Provides practical guidance and solutions to commonly encountered issues and scenarios Presented in an accessible format to rapidly aid the clinician in day-to-day practice

Essentials of Veterinary Microbiology *Lippincott Williams & Wilkins*

Intended for veterinarians, this book covers all major aspects of veterinary microbiology. It aims to give typical morphologic and descriptive information on bacteria, fungi and viruses which have to be understood by students.

Infectious Diseases of the Dog and Cat - E-Book *Elsevier Health Sciences*

The definitive reference for the diagnosis, treatment, and prevention of small animal infections, Infectious Diseases of the Dog and Cat, 4th Edition delivers current, comprehensive information essential to the management of infectious diseases caused by viruses, rickettsiae, chlamydiae, mycoplasmas, bacteria, fungi, algae, protozoa, and unknown agents. Each section guides you through diagnostic testing for specific microorganisms, from sample collection to laboratory submission to interpretation of results, then details appropriate treatment measures and pharmacologic considerations for the various related infections. Full-color illustrations and hundreds of tables provide quick, convenient access to diagnostic and therapeutic guidelines, and thoroughly updated drug information helps you confidently administer appropriate dosages for the most effective treatment and prevention. The most comprehensive infectious disease coverage available helps you confidently address clinical problems related to infectious diseases in dogs and cats, and includes: Immunization strategies and environmental control of infections Immunodeficiency disorders Prevention of infection in multi-pet and shelter settings Immunocompromised people and their pets Vibrant full-color illustrations clarify disease features and modes of disease transmission for enhanced diagnostic accuracy and disease prevention. Convenient tables deliver therapeutic recommendations and drug dosages at a glance. Complete antimicrobial drug formulary provides fast, easy access to indications, recommended dosages, and pharmacologic considerations essential for all relevant pharmaceuticals. State-of-the-art diagnostic testing procedures help you ensure accurate diagnoses for all clinically relevant pathogens. Content reflects the expert insight and vast clinical experience of a panel of trusted authorities on small animal infectious diseases. Easy-to-use companion website provides convenient online access to additional images, tables, boxes, appendices, and references linked directly to original PubMed abstracts. Expanded coverage of zoonoses, zoonotic potential, and precautions helps you effectively monitor and treat zoonotic infections. Fully updated drug formulary reflects the most current pharmacokinetics, indications, contraindications, handling and administration guidelines, and dosage recommendations available. Updated content throughout the text details current diagnostic testing regimens and therapeutic and preventive considerations for all pathogens you're likely to encounter in the clinical setting. Special focus on disease incidence and susceptibility in traveling animals helps you alert animal owners to potential risks associated with pet travel.

Microbiology for Veterinary Technicians

Microbiology for Veterinary Technicians introduces veterinary technician and technologist students to the complex and exciting world of microorganisms. Divided into four main parts, the book provides pertinent, up-to-date information regarding many different aspects of veterinary microbiology. Part I - Foundations of basic microbiological structure and function, the role of the immune system in microbial diseases, and common therapeutics in use today Parts II - Common bacteria encountered in veterinary medicine Part III - Common fungi encountered in veterinary medicine Part IV - Diagnostics available to the veterinary technician Special features of the book include: - Full color images and graphics - Callout boxes that emphasize important concepts, such as client education, zoonoses, and biosecurity - In-text bolding of important key words and concepts as well as a Glossary - End-of-chapter "Further Readings" section for those who want to pursue topics beyond the classroom Each chapter is filled with information most useful to the veterinary technician in their day-to-day lives. Special attention is paid to facets of the veterinary technician's role as an integral member of the veterinary team including: history-taking, choice and interpretation of diagnostics, and client education.

Medical Microbiology E-Book *Elsevier Health Sciences*

The foremost text in this complex and fast-changing field, Medical Microbiology, 9th Edition, provides concise, up-to-date, and understandable explanations of key concepts in medical microbiology, immunology, and the microbes that cause human disease. Clear, engaging coverage of basic principles, immunology, laboratory diagnosis, bacteriology, virology, mycology, and parasitology help you master the essentials of microbiology?effectively preparing you for your coursework, exams, and beyond. Features significant new information on the human microbiome and its influence on the immune and other body systems, and new developments in microbial diagnosis, treatment, diseases, and pathogens. Updates every chapter with state-of-the-art information and current literature citations. Summarizes detailed information in tabular format rather than in lengthy text. Provides review questions at the end of each chapter that correlate basic science with clinical practice. Features clinical cases that illustrate the epidemiology, diagnosis, and treatment of infectious diseases. Introduces microbe chapters with summaries and trigger words for easy review. Highlights the text with clear, colorful figures, clinical photographs, and images that help you visualize the clinical presentation of infections. Offers additional study features online, including 200 self-assessment questions, microscopic images of the microbes, videos, and a new integrating chapter that provides hyperlinks between the microbes, the organ systems that they affect, and their diseases. Evolve Instructor site with an image and video collection is available to instructors through their Elsevier sales rep or via request at: <https://evolve.elsevier.com>.