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Viral, Parasitic, Bacterial, and Fungal Infections - Debasis Bagchi 2022-10-15
Viral, Parasitic, Bacterial, and Fungal Infections: Antimicrobial, Host Defense, and Therapeutic Strategies highlight diverse types of infections, including viral, bacterial, parasitic, fungal, and the therapeutic efficacy of antibiotics, antivirals, antifungals and other medications, nutraceuticals, and phytotherapeutics. This book addresses the molecular, pathophysiological, and cellular pathways involved in the process of infection. It also examines the host defense mechanisms modulated by innate and adaptive immunity. The book starts off with an introduction, which includes etiology, pathophysiology, and diagnosis of infections. It then goes on to cover a wide spectrum of salient features involved in viral, bacterial, parasitic, and fungal infections and effective therapeutic strategies. In addition, there is a complete section of eight chapters elaborating the detailed aspects of COVID-19 infections, Mucormycosis, Omicron, and strategic vaccines and therapeutics. The book further goes on to discuss novel antibiotics, vaccines, bromhexine, boron compounds, phytotherapeutics, and aspects on boosting immune competence. Contributed by experts in the fields of viral, parasitic, bacterial, and fungal infections, the book comprehensively details the various types of infections such as herpes and COVID-19, their molecular mechanisms, and treatment strategies for those engaged in the research of infectious diseases. • Details the pathophysiology of various classes of infections • Examines mechanisms of pathogenesis, immunity, and therapeutics in bacterial, viral, and eukaryotic infectious diseases • Discusses various aspects on herpes, COVID-19 infections, Mucormycosis, Omicron, vaccines, and therapeutics • Covers the salient features on zoonosis, prion disease, and diabetic foot infections • Provides therapeutic strategies of using new antibiotics, vaccines, bromhexine, boron compounds, structurally diverse phytotherapeutics, immune enhancers, and other modalities for treating infections

WHO/OIE Manual on Echinococcosis in Humans and Animals - International Office of Epizootics 2001

Aquaculture Pathophysiology - Frederick S.B. Kibenge 2022-08-26
Aquaculture Pathophysiology, Volume II. Crustacean and Molluscan Diseases is a concise, practical reference on shellfish diseases of significant risk to aquaculture. Its value to the veterinarian, fish health biologist or extensionist, fish pathologist and fish health diagnostician is its easy reach for critical information on the diagnosis and management of significant infectious and non-infectious diseases for the major temperate, subtropical and tropical shellfish species of commercial and fisheries

importance. This volume should be read in partnership with volume one on finfish diseases as the principles and approach to the diagnosis and management of aquacultured animal species are similar. This comprehensive resource is ideal for researchers, teachers, students, diagnostic laboratory scientists, aquaculture technicians, and farmers who need to be competent across both finfish and shellfish health issues. Presents a focus on the disease process of major or emerging viral, bacterial, fungal and parasitic infections affecting aquacultured shellfish species e.g., shrimp, lobsters, crayfish, crabs, oysters, mussels, abalone and scallops Focuses on important or emerging environmental, nutritional, genetic, deformity, toxicological, endocrine disruption, and neoplastic diseases in crustaceans and mollusks Provides a review of the immunology of shellfish relevant to a practical understanding of disease diagnosis and management Includes an overview of laboratory diagnostic methods relevant to the detection of shellfish diseases Discusses the diverse risk factors of shellfish diseases and options for their control

Toxoplasmosis of Animals and Humans, Second Edition - J. P. Dubey 1988-08-31

Complete information on T. gondii infections in animals and man is summarized and analyzed in this thorough reference text. Critical in-formation on its economic impact and its effect on production of animals whose flesh is used for food is featured. The clinical and subclinical infections in all major species of livestock are pre-sented. For each animal species, worldwide serological prevalences are tabulated with T. gondii antibody titers, followed by an experi-mental section. Worldwide prevalences of T. gondii infections in mankind is summarized, highlighting epidemiology, symptom diag-nosis, treatment, and prevention. Past research is summarized and areas of future investigations are suggested. This book is highly useful to veterinarians, physicians, biologists, and researchers.

Infectious Disease in Aquaculture - B Austin 2012-04-25

With an ever increasing demand for seafood that cannot be met by capture fisheries alone, growing pressure is being placed on aquaculture production. However, infectious diseases are a major constraint. Infectious disease in aquaculture: prevention and control brings together a wealth of recent research on this problem and its effective management. Part one considers the innate and adaptive immune responses seen in fish and shellfish together with the implications of these responses for disease control. The specific immune response of molluscs and crustaceans is considered in depth, along with the role of stress in resistance to infection. Advances in disease diagnostics, veterinary drugs and vaccines are discussed in part two, with quality assurance, the use and effects of antibiotics and anti-parasitic drugs in aquaculture, and developments in vaccination against fish are explored. Part three focuses on the development of specific pathogen-free populations and novel approaches for disease control. Specific pathogen free shrimp stocks, developments in genomics and the use of bacteria and bacteriophages as biological agents for disease control are explored, before the management and use of natural antimicrobial compounds. With its distinguished editor and expert team of contributors, Infectious disease in aquaculture: prevention and control provides managers of aquaculture facilities and scientists working on disease in aquaculture with a comprehensive and systematic overview of essential research in the prevention and control of infectious disease. Collates a wealth of recent research on infectious disease and its effective management in aquaculture production Considers the innate and adaptive immune responses seen in fish and shelfish and the implications for disease control Discusses advances in disease diagnostics, veterinary drugs and vaccines

WHO/FAO/OIE Guidelines for the Surveillance, Prevention and Control of Taeniosis/cysticercosis - K. D. Murrell 2005

The Bad Bug Book - FDA 2004

This handbook provides basic facts regarding foodborne pathogenic microorganisms and natural toxins.

The Surgical Management of Parasitic Diseases - George Tsoulfas 2020-07-23

This book is designed to present a comprehensive and state-of the-art approach to the diagnosis and surgical management of

parasitic diseases involving different organ systems, with emphasis on the gastrointestinal tract. It is divided into five parts that address the various etiologies, current diagnostic dilemmas and methods, as well as the key principles involved in their surgical management. The introduction presents the overall epidemiology and classification of parasitic diseases, followed by chapters that focus on different types of the most frequently encountered parasitic diseases of the gastrointestinal tract found in different parts of the world, with special attention given to the existing surgical debates regarding the use of minimally invasive procedures. The next part places special emphasis on hydatid disease by describing the current extent of this disease, changes in its management, and the most frequent complications and tips on how to avoid them. The following part discusses the surgical management of parasitic diseases affecting different organ systems, including the heart, the lungs, the brain and the urinary system. The final part presents the surgical dilemmas encountered in special situations, such as pregnancy, and the pediatric patient. The Surgical Management of Parasitic Diseases is an important and authoritative resource to surgeons of all specialties dealing with parasitic diseases

Foodborne Parasites - Ynés R. Ortega 2018-01-24

The globalization and commercialization of the food system has unintentionally led to the introduction of new foodborne parasites in countries worldwide. Fortunately, advances in detection and control are providing the basis for a better understanding of the biology and control of parasitic infections, and this in turn will likely contribute to the reduction and hopefully elimination of parasitic foodborne outbreaks. Building on the first edition, this completely revised second edition of Foodborne Parasites covers the parasites most associated with foodborne transmission and therefore of greatest global public health relevance. The volume examines protozoa and their subgroups: the amoeba, coccidia, flagellates and ciliates. Chapters also address Trypanosoma cruzi, recently recognized as an emerging foodborne protozoan. The helminth section is expanded to cover teniasis, cysticercosis, hydatidosis, and the trematodes and nematodes including Angiostrongylus, which is present worldwide. Finally, the editors examine the burden and risk assessment determinations that have provided a scientific framework for developing policies for the control of foodborne parasites.

Camelid Infectious Disorders - Ulrich Wernery 2014

Foodborne Parasites - Ynes R. Ortega 2006-11-22

This book examines the two major parasite groups that are transmitted via water or foods: the single-celled protozoa, and the helminths: cestodes (tapeworms), nematodes (round worms), and trematodes (flukes). Each chapter covers the biology, mechanisms of pathogenesis, epidemiology, treatment, and inactivation of these parasites. This important new text offers a better understanding of the biology and control of parasitic infections necessary to reduce or eliminate future outbreaks in the U.S. and elsewhere.

FAO/WHO/OIE Guidelines for the Surveillance, Management, Prevention and Control of Trichinellosis - Jean Dupouy-Camet 2007

Genomics and Biotechnological Advances in Veterinary, Poultry, and Fisheries - Yashpal Singh Malik 2019-09-14

Genomics and Biotechnological Advances in Veterinary, Poultry, and Fisheries is a comprehensive reference for animal biotechnologists, veterinary clinicians, fishery scientists, and anyone who needs to understand the latest advances in the field of next generation sequencing and genomic editing in animals and fish. This essential reference provides information on genomics and the advanced technologies used to enhance the production and management of farm and pet animals, commercial and non-commercial birds, and aquatic animals used for food and research purposes. This resource will help the animal biotechnology research community understand the latest knowledge and trends in this field. Presents biological applications of cattle, poultry, marine and animal pathogen genomics Discusses the relevance of biomarkers to improve farm animals and fishery Includes

recent approaches in cloning and transgenic cattle, poultry and fish production

Sustaining Global Surveillance and Response to Emerging Zoonotic Diseases - National Research Council 2010-01-24

H1N1 ("swine flu"), SARS, mad cow disease, and HIV/AIDS are a few examples of zoonotic diseases-diseases transmitted between humans and animals. Zoonotic diseases are a growing concern given multiple factors: their often novel and unpredictable nature, their ability to emerge anywhere and spread rapidly around the globe, and their major economic toll on several disparate industries. Infectious disease surveillance systems are used to detect this threat to human and animal health. By systematically collecting data on the occurrence of infectious diseases in humans and animals, investigators can track the spread of disease and provide an early warning to human and animal health officials, nationally and internationally, for follow-up and response. Unfortunately, and for many reasons, current disease surveillance has been ineffective or untimely in alerting officials to emerging zoonotic diseases. Sustaining Global Surveillance and Response to Emerging Zoonotic Diseases assesses some of the disease surveillance systems around the world, and recommends ways to improve early detection and response. The book presents solutions for improved coordination between human and animal health sectors, and among governments and international organizations. Parties seeking to improve the detection and response to zoonotic diseases-including U.S. government and international health policy makers, researchers, epidemiologists, human health clinicians, and veterinarians-can use this book to help curtail the threat zoonotic diseases pose to economies, societies, and health.

Risk-based examples and approach for control of Trichinella spp. and Taenia saginata in meat - Food and Agriculture Organization of the United Nations 2020-11-03

Human trichinellosis is caused by the consumption of raw or inadequately treated meat from domestic or game animals containing the larvae of parasites of the Trichinella species. Taenia saginata causes bovine cysticercosis, a parasitic disease of cattle, by the larval stage (Cysticercus bovis) of the human tapeworm Taenia saginata. Taeniosis, infection of humans with the adult tapeworm, ocurrs following consumption of beef with cysticerci that has not been sufficiently heated or frozen to kill the parasite. This report provides the spreadsheet models resulted in effective generation of the quantitative information needed by public health officials when evaluating different postmortem meat hygiene programmes for Trichinella spp. and Taenia saginata in meat. The models enable the development of science-based risk scenarios to assess the effect of various changes to digestion testing and meat inspection for Trichinella spp. and Taenia saginata on the residual risk of human trichinellosis and taeniosis. The outcome of estimation is based on changes in relative risks rather than specific estimates of risk.

African Swine Fever in wild boar - Food and Agriculture Organization of the United Nations 2019-09-11

The purpose of document is to provide fact based overview of ASF ecology in the Northern and Eastern European populations of wild boar and briefly describe a range of practical management and biosecurity measures or interventions, which can help stockholders in the countries experiencing large scale epidemic of this exotic disease to address the problem in a more coherent, collaborative and comprehensive way. The handbook should not be viewed as an authoritative manual providing readymade solutions on how to eradicate ASF from wild boar. The facts, observations and approaches described in the document are presented with the intention to broadly inform veterinary authorities, wildlife conservation bodies, hunting community, farmers and general public about complexity of this novel disease and the need to wisely plan and carefully coordinate any efforts aiming at its prevention and control.

Foodborne Parasites in the Food Supply Web - Alvin A Gajadhar 2015-05-26

Foodborne Parasites in the Food Supply Web: Occurrence and Control provides an overview of the occurrence, transmission, and control of parasites in the food chain, including an introduction to the topic from the perspectives of various issues surrounding foodborne parasites. The text then explores the different types of foodborne parasites, the dynamics of parasite

transmission in different food sources, and the prevention and control of foodborne parasites in the food chain. Provides an overview of the occurrence, transmission, and control of parasites in the food chain Explores the different types of foodborne parasites and the dynamics of parasite transmission in different food sources Highlights prevention and control methods to ensure the safety of the food chain

Bad Bug Book - Mark Walderhaug 2014-01-14

The Bad Bug Book 2nd Edition, released in 2012, provides current information about the major known agents that cause foodborne illness.Each chapter in this book is about a pathogen—a bacterium, virus, or parasite—or a natural toxin that can contaminate food and cause illness. The book contains scientific and technical information about the major pathogens that cause these kinds of illnesses.A separate "consumer box" in each chapter provides non-technical information, in everyday language. The boxes describe plainly what can make you sick and, more important, how to prevent it.The information provided in this handbook is abbreviated and general in nature, and is intended for practical use. It is not intended to be a comprehensive scientific or clinical reference.The Bad Bug Book is published by the Center for Food Safety and Applied Nutrition (CFSAN) of the Food and Drug Administration (FDA), U.S. Department of Health and Human Services.

Infectious Diseases in Primates - Charles Nunn 2006-04-27

This title includes the following features: The first book to synthesiseand integrate the previously disparate areas of primate socioecology, parasitefunctional categories, host defences, and theoretical models of disease spread.; Organizes hypotheses according to parasite traits such as transmission mode,host specificity and virulence.; Develops a new co-evolutionary framework forinvestigating parasites and primate social evolution at empirical andtheoretical scales.; Ideal graduate seminar course material.

Toxoplasmosis of Animals and Humans - J. P. Dubey 2016-04-19

Found worldwide from Alaska to Australasia, Toxoplasma gondii knows no geographic boundaries. The protozoan is the source of one of the most common parasitic infections in humans, livestock, companion animals, and wildlife, and has gained notoriety with its inclusion on the list of potential bioterrorism microbes. In the two decades since the publi

CRC Handbook of Marine Mammal Medicine - Leslie Dierauf 2001-06-27

CRC Handbook of Marine Mammal Medicine, Second Edition is the only handbook specifically devoted to marine mammal medicine and health. With 66 contributors working together to craft 45 scientifically-based chapters, the text has been completely revised and updated to contain all the latest developments in this field. Building upon the solid foundation of the previous edition, the contents of this book are light-years ahead of the topics presented in the first edition. See what's new in the Second Edition: Marine mammals as sentinels of ocean health Emerging and resurging diseases Thorough revision of the Immunology chapter Diagnostic imaging chapters to illustrate new techniques Quick reference for venipuncture sites in many marine mammals Unusual mortality events and mass strandings New topics such as a chapter on careers Wider scope of coverage including species outside of the United States and Canada Filled with captivating illustrations and photographs, the Handbook guides you through the natural history of cetaceans, pinnipeds, manatees, sea otters, and polar bears. Prepared in a convenient, easy-to-use format, it is designed specifically for use in the field. Covering more than 40 topics, this one-of-a-kind reference is packed with data. The comprehensive compilation of information includes medicine, surgery, pathology, physiology, husbandry, feeding and housing, with special attention to strandings and rehabilitation. The CRC Handbook of Marine Mammal Medicine, Second Edition is still a must for anyone interested in marine mammals.

Tilapia Culture - Abdel-Fattah M. El-Sayed 2019-10-16

Tilapia Culture, Second Edition, covers the vital issues of farmed tilapia in the world, including their biology, environmental requirements, semi-intensive culture, intensive culture systems, nutrition and feeding, reproduction, seed production and larval rearing, stress and disease, harvesting, economics, trade,

marketing, the role of tilapia culture in rural development and poverty eradication, and technological innovations in, and the environmental impacts of, tilapia culture. In addition, the book highlights and presents the experiences of leading countries in tilapia culture, thus making it ideal for tilapia farmers and researchers who seek the most relevant research and information. The new second edition not only brings the most updated information within each chapter, but also delivers new content on tilapia transfers, introductions and their impacts, the use of probiotics and other additives in tilapia culture, tilapia trade, including marketing, and sustainability approaches and practices, such as management practices, ecosystem approaches to tilapia culture, and value chain analyses of tilapia farming. Presents the biology of tilapia, including taxonomy, body shapes, geographical distribution, introductions and transfers, gut morphology, and feeding habits Covers semi-intensive tilapia culture in earthen ponds, tanks, raceways, cages, recirculating systems, and aquaponics Provides the latest information on brood stock management, production of monosex tilapia, seed production, and larval rearing under different culture systems Highlights the most common infectious and non-infectious diseases affecting farmed tilapia, with a full description of disease symptoms and treatment measures Provides an in-depth exploration of tilapia economics, trade and marketing

African swine fever (ASF) detection and diagnosis - Food and Agriculture Organization of the United Nations 2018-09-27

Given the current worsening of the African swine fever situation worldwide, this field manual will be aimed to assist veterinarians in the prompt recognition and detection of the disease and the immediate control steps at farm level.

Parasitic Protozoa of Farm Animals and Pets - Monica Florin-Christensen 2018-04-17

This book provides an in-depth yet concise overview of the most common and emerging protozoa that cause diseases in both farm animals and companion animals. As outlined in the concise introduction, pathogenic protozoans represent an evolutionary highly diverse and little understood group of disease-causing microorganisms. For each of the featured parasitic unicellular eukaryotes, it discusses the morphology, lifecycle, epidemiology and host-pathogen interactions. In addition, the book highlights the latest developments in diagnostic methods, as well as prevention and treatment strategies. Thorough information on genomes and genetic manipulation strategies for some of the protozoa covered in this book is also included. Infections involving parasitic protozoa can cause productivity losses and/or reduce the quality of life of infected animals. Some infections are zoonotic, posing an on-going public health threat. In most cases, prevention and treatment are either non-existent or need considerable improvement. On the other hand, a great deal of research has recently been conducted on these organisms, yielding valuable new information on their global distribution and revealing the mechanisms of host-pathogen interactions at the molecular level – and essential insights that can be used for the development of new control tools. This book includes extensive information on both basic aspects and recent scientific discoveries on these protozoa and thus constitutes a unique resource for students, veterinarians, and researchers alike.

Manual of Diagnostic Tests for Aquatic Animals 2012 - 2012-03-01

Investing to Overcome the Global Impact of Neglected Tropical Diseases - World Health Organization 2015-08-05

"The presence, or absence, of neglected tropical diseases (NTDs) can be seen as a proxy for poverty and for the success of interventions aimed at reducing poverty. Today, coverage of the public-health interventions recommended by the World Health Organization (WHO) against NTDs may be interpreted as a proxy for universal health coverage and shared prosperity - in short, a proxy for coverage against neglect. As the world's focus shifts from development to sustainable development, from poverty eradication to shared prosperity, and from disease-specific goals to universal health coverage, control of NTDs will assume an important role towards the target of achieving universal health coverage, including individual

financial risk protection. Success in overcoming NTDs is a "litmus test" for universal health coverage against NTDs in endemic countries. The first WHO report on NTDs (2010) set the scene by presenting the evidence for how these interventions had produced results. The second report (2013) assessed the progress made in deploying them and detailed the obstacles to their implementation. This third report analyses for the first time the investments needed to achieve the scale up of implementation required to achieve the targets of the WHO Roadmap on NTDs and universal coverage against NTDs. INVESTING TO OVERCOME THE GLOBAL IMPACT OF NEGLECTED TROPICAL DISEASES presents an investment strategy for NTDs and analyses the specific investment case for prevention, control, elimination and eradication of 12 of the 17 NTDs. Such an analysis is justified following the adoption by the Sixty-sixth World Health Assembly in 2013 of resolution WHA6612 on neglected tropical diseases, which called for sufficient and predictable funding to achieve the Roadmap's targets and sustain control efforts. The report cautions, however, that it is wise investment and not investment alone that will yield success. The report registers progress and challenges and signals those that lie ahead. Climate change is expected to increase the spread of several vector-borne NTDs, notably dengue, transmission of which is directly influenced by temperature, rainfall, relative humidity and climate variability primarily through their effects on the vector. Investments in vector-borne diseases will avoid the potentially catastrophic expenditures associated with their control. The presence of NTDs will thereby signal an early warning system for climate-sensitive diseases. The ultimate goal is to deliver enhanced and equitable interventions to the most marginalized populations in the context of a changing public-health and investment landscape to ensure that all peoples affected by NTDs have an opportunity to lead healthier and wealthier lives."--Publisher's description.

The Veterinary Laboratory and Field Manual 3rd Edition - Susan C. Cork 2019-06-03

Isolated regions of the world are often at the forefront of emerging diseases. To be effective in disease prevention and control, they require basic resources for field sample collection and testing. Technical support for field extension staff, and the availability of reliable diagnostic testing facilities, are also vital to ensure sustainable livelihoods for subsistence farmers. This technical handbook aims to provide an easy to follow overview of the basic laboratory techniques and sample collection guidelines. The third edition provides the reader with a summary of basic diagnostic procedures and sample submission guidelines.

Diseases of Poultry - J.R. Glisson 2013-07-11

Diseases of Poultry is the most comprehensive reference for all aspects of poultry health and diseases, including pathogenesis, diagnostics, epidemiology, and control methods. Published in partnership with the American Association of Avian Pathologists, the Thirteenth Edition remains the international definitive reference, adding newer diagnostic methods and a new chapter on the emerging importance of zoonotic infections for poultry pathogens. Other updates include new high-quality photographs, additional discussion of conceptual operational biosecurity and disease control in organic production systems, and a greater emphasis throughout on the differences in disease incidence and treatments for the United States and other areas around the globe. Organized logically by disease type, the book offers detailed coverage of the history, etiology, pathobiology, diagnosis, and intervention strategies, as well as the economic and public health significance, for an exhaustive list of common and uncommon diseases. Diseases of Poultry, 13th Edition is an essential purchase for poultry veterinarians, veterinary diagnosticians, poultry scientists, students specializing in poultry health, and government officials who deal with poultry health in regulatory climate.

WHO Guidelines on Tularaemia - World Health Organization 2007-12-15

Tularaemia is a bacterial zoonotic disease of the northern hemisphere. The bacterium (Francisella tularensis) is highly virulent for humans and a range of animals such as rodents hares and rabbits. Humans can infect themselves by direct contact with infected animals by arthropod bites by ingestion of contaminated water or food or by inhalation of infective aerosols. There is no human-to-human

transmission. In addition to its natural occurrence F. tularensis evokes great concern as a potential bioterrorism agent. F. tularensis subspecies tularensis is one of the most infectious pathogens known in human medicine. In order to avoid laboratory-associated infection safety measures are needed and consequently clinical laboratories do not generally accept specimens for culture. However since clinical management of cases depends on early recognition there is an urgent need for diagnostic services. This first edition of WHO Guidelines on tularaemia provides background information on the disease describes the current best practices for its diagnosis and treatments in humans suggests measures to be taken in case of epidemics and provides guidance on how to handle F. tularensis in the laboratory. The target audience includes clinicians laboratory personnel public health workers veterinarians and any other person with an interest in zoonoses.

Infectious Diseases of Livestock - J. A. W. Coetzer 2005-04-28

While the focus of the first edition was on sub-Saharan Africa, this second edition has significantly expanded contents that include the majority of the infectious diseases of livestock that occur world-wide. Each of the infectious diseases is dealt with in terms of its introduction and history, epidemiology, pathogenesis, clinical signs, pathology, diagnosis, differential diagnosis, and control. A comprehensive list of references is provided for each disease. To facilitate readability, references are numbered in the text.

Manual of Diagnostic Tests for Aquatic Animals - 2009

Leishmaniasis - David Claborn 2014-03-19

Of all the parasitic diseases, leishmaniasis is one of the most diverse, with a variety of manifestations, from relatively minor cutaneous lesions to deadly visceral infections. It is also widespread, causing human disease in the Americas, Asia, Europe and Africa. The environments in which this disease occurs range from desert to tropical jungle to urban habitats. Not surprisingly, the literature on this disease is written in a variety of languages including Portuguese, Arabic, English and French among others. This book provides a synopsis in English of much of the recent research on leishmaniasis, with a focus on the epidemiology, diagnosis and treatment of the disease as described by researchers around the world, but with a focus on the research from Brazil and the Middle East.

Infectious Diseases in Camelids - Ulrich Wernery 2002-02-28

The second edition of Infectious Diseases of Camelids has been completely revised and enlarged. Besides virological and bacteriological diseases, mycoses and parasitoses have been taken into account to present a comprehensive and up-to-date reference book covering all infectious diseases of old-world camelids.

Multicriteria-based Ranking for Risk Management of Food-borne Parasites - Pascal Boireau 2014

This product documents the process by which foodborne parasites were ranked from a global food safety perspective and provides a ranking and information on all the top ranked parasites both generally and from a regional perspective. It directly supports the establishment of international standards on foodborne parasites by the Codex Alimentarius which are agreed by countries and can then be used as a basis for improving the safety of specific products and facilitation their trade internationally. These in turn directly contribute to the SO by promoting more efficient and inclusive trade.

Parasitic Diseases of the Lungs - Roberto Barrios 2013-07-03

Diagnosis of parasitic lung diseases is often difficult as their clinical manifestations can mimic common respiratory illnesses and routine tests can fail to detect the infections. Parasitic Diseases of the Lungs is designed as a practical guide for pathologists who encounter parasitic diseases of the lung in their daily routine. The book comprises eight chapters. After discussion of the handling of lung biopsies from patients with suspected parasitic disease, individual chapters focus on Protozoa, Nematoda, Trematoda, and Cestoda. The morphologic patterns associated with various parasitic infections are then analyzed, and differentiation between artifacts and parasites is discussed. The final chapter is devoted to the immunocompromised patient and covers general principles of histologic evaluation, parasites

associated with HIV and AIDS, and the features of diffuse alveolar damage.

Pathology of Wildlife and Zoo Animals - Karen A. Terio 2018-10-08

Pathology of Wildlife and Zoo Animals is a comprehensive resource that covers the pathology of wildlife and zoo species, including a wide scope of animals, disease types and geographic regions. It is the definitive book for students, biologists, scientists, physicians, veterinary clinicians and pathologists working with non-domestic species in a variety of settings. General chapters include information on performing necropsies, proper techniques to meet the specialized needs of forensic cases, laboratory diagnostics, and an introduction into basic principles of comparative clinical pathology. The taxon-based chapters provide information about disease in related groups of animals and include descriptions of gross and histologic lesions, pathogenesis and diagnostics. For each group of animals, notable, unique gross and microscopic anatomical features are provided to further assist the reader in deciding whether differences from the domestic animal paradigm are "normal." Additional online content, which includes text, images, and whole scanned glass slides of selected conditions, expands the published material resulting in a comprehensive approach to the topic. Presents a single resource for performing necropsies on a variety of taxa, including terrestrial and aquatic vertebrates and invertebrates Describes notable, unique gross and microscopic anatomical variations among species/taxa to assist in understanding normal features, in particular those that can be mistaken as being abnormal Provides consistent organization of chapters with descriptions of unique anatomic features, common non-infectious and infectious diseases following brief overviews of the taxonomic group Contains full-color, high quality illustrations of diseases Links to a large online library of scanned slides related to topics in the book that illustrate important histologic findings

Global Infectious Disease Surveillance and Detection - Institute of Medicine 2007-11-11

Early detection is essential to the control of emerging, reemerging, and novel infectious diseases, whether naturally occurring or intentionally introduced. Containing the spread of such diseases in a profoundly interconnected world requires active vigilance for signs of an outbreak, rapid recognition of its presence, and diagnosis of its microbial cause, in addition to strategies and resources for an appropriate and efficient response. Although these actions are often viewed in terms of human public health, they also challenge the plant and animal health communities. Surveillance, defined as "the continual scrutiny of all aspects of occurrence and spread of a disease that are pertinent to effective control", involves the "systematic collection, analysis, interpretation, and dissemination of health data." Disease detection and diagnosis is the act of discovering a novel, emerging, or reemerging disease or disease event and identifying its cause. Diagnosis is "the cornerstone of effective disease control and prevention efforts, including surveillance." Disease surveillance and detection relies heavily on the astute individual: the clinician, veterinarian, plant pathologist, farmer, livestock manager, or agricultural extension agent who notices something unusual, atypical, or suspicious and brings this discovery in a timely way to the attention of an appropriate representative of human public health, veterinary medicine, or agriculture. Most developed countries have the ability to detect and diagnose human, animal, and plant diseases. Global Infectious Disease Surveillance and Detection: Assessing the Challenges-Finding Solutions, Workshop Summary is part of a 10 book series and summarizes the recommendations and presentations of the workshop.

Blackwell's Five-Minute Veterinary Consult: Ruminant - Christopher Chase 2017-10-23

Blackwell's Five-Minute Veterinary Consult: Ruminant, Second Edition keeps practitioners completely current with the latest in disease management for ruminants and camelids. Updates the first all-in-one ruminant resource designed specifically for quick information retrieval Provides identically formatted topics for easy searching by alphabetical listing or by discipline, with each topic indicating the species affected Offers fast access to the accumulated wisdom of hundreds of veterinary experts Adds more than 100 new topics, with significant revisions to existing topics Includes access to a

companion website with additional topics, client education handouts, and figures

Combating and Controlling Nagana and Tick-Borne Diseases in Livestock - Orenge, Caleb Oburu 2021-01-29

African animal trypanosomosis (AAT), also called nagana, is a trans-boundary disease that has had an immense impact on cattle and is ranked among the top global cattle diseases. This and tick-borne diseases have caused major obstacles to sustainable livestock-based agricultural production and food security and are important factors in underdevelopment. Due to decreasing efficacy of available drugs, widespread trypanosome resistance, and the difficulty of sustaining other control measures, there is a need for alternative sustainable strategies to reduce the impact these diseases have on livestock. Combating and Controlling Nagana and Tick-Borne Diseases in Livestock provides the latest empirical research findings on the effects of African animal trypanosomiasis (nagana) and tick-borne disease infection in livestock, their impact on farmer livelihoods, and the measures that can be undertaken to mitigate negative effects and reduce the number of infections. While highlighting topic areas such as disease history and transmission, treatments, and the economic impacts, this book is essential for farmers, animal health and animal production professionals and practitioners, non-government organizations, researchers, academicians, and students working in fields that include but are not limited to agriculture, livestock production, environmental science, veterinary medicine, veterinary pathology, and epidemiology.

Taking a Multisectoral One Health Approach : A Tripartite Guide to Addressing Zoonotic Diseases in Countries - Food and Agriculture Organization of the United Nations 2019-03-11

The 2018 FAO-OIE-WHO (Tripartite) zoonoses guide, “Taking A Multisectoral, One Health Approach: A Tripartite Guide to Addressing Zoonotic Diseases in Countries” (2018 TZG) is being jointly developed to provide member countries with practical guidance on OH approaches to build national mechanisms for multisectoral coordination, communication, and collaboration to address zoonotic disease threats at the animal-human-environment interface. The 2018 TZG updates and expands on the guidance in the one previous jointly-developed, zoonoses-specific guidance document: the 2008 Tripartite “Zoonotic Diseases: A Guide to Establishing Collaboration between Animal and Human Health Sectors at the Country Level”, developed in WHO South-East Asia Region and Western Pacific Region. The 2018 TZG supports building by countries of the resilience and capacity to address emerging and endemic zoonotic diseases such as avian influenza, rabies, Ebola, and Rift Valley fever, as well as food-borne diseases and antimicrobial resistance, and to minimize their impacts on health, livelihoods, and economies. It additionally supports country efforts to implement WHO International Health Regulations (2005) and OIE international standards, to address gaps identified through external and internal health system evaluations, and to achieve targets of the Sustainable Development Goals. The 2018 TZG provides relevant country ministries and agencies with lessons learned and good practices identified from country-level experiences in taking OH approaches for preparedness, prevention, detection and response to zoonotic disease threats, and provides guidance on multisectoral communication, coordination, and collaboration. It informs on regional and country-level OH activities and relevant unisectoral and multisectoral tools available for countries to use.