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### VGBC61 - HAROLD ANNA

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The Swine Disease Manual is an informative reference for students, instructors, practitioners, technicians, and anyone working in the swine industry. It provides a concise overview of most diseases and syndromes affecting swine, with diseases grouped by etiologic agent. The fourth edition has been completely revised and updated, and contains new information on clostridial disease, salmonellosis, porcine circovirus, and more! The book is 170 pages, indexed, and contains a section of tables that provide a quick overview of diseases affecting a single body system and aid in differential diagnosis. An excellent study guide for veterinary board examinations!--publisher website.

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.

Greenhouse gas emissions by the livestock sector could be cut by as much as 30 percent through the wider use of existing best practices and technologies. FAO conducted a detailed analysis of GHG emissions at multiple stages of various livestock supply chains, including the production and transport of animal feed, on-farm energy use, emissions from animal digestion and manure decay, as well as the post-slaughter transport, refrigeration and packaging of animal products. This report represents the most comprehensive estimate made to-date of livestock's contribution to global warming as well as the sectors potential to help tackle the problem. This publication is aimed at professionals in food and agriculture as well as policy makers.

As the culminating volume in the DCP3 series, volume 9 will provide an overview of DCP3 findings and methods, a summary of messages and substantive lessons to be taken from DCP3, and a further discussion of cross-cutting and synthesizing topics across the first eight volumes. The introductory chapters (1-3) in this volume take as their starting point the elements of the Essential Packages presented in the overview chapters of each volume. First, the chapter on intersectoral policy priorities for health includes fiscal and intersectoral policies and assembles a subset of the population policies and applies strict criteria for a low-income setting in order to propose a "highest-priority" essential package. Second, the chapter on packages of care and delivery platforms for universal health coverage (UHC) includes health sector interventions, primarily clinical and public health services, and uses the same approach to propose a highest priority package of interventions and policies that meet similar criteria, provides cost estimates, and describes a pathway to UHC.

This book, which is the first volume of the book series-Livestock Diseases and Management, summarizes the prominence and implications of the emerging and transboundary animal viruses. Although the livestock plays an important role in the economy of many countries, the emerging and transboundary animal viral diseases possess a serious risk to the animal-agriculture sector and food security globally. The book describes the precise and up-to-date information on animal viral diseases which have emerged in the recent past or are re-emerging due to various environmental factors and those which are not bounded in restricted national boundaries and attained the transboundary status. The chapters summarize the recent advancements in the molecular state-of-art tools towards the development of diagnostics, prophylactics, and therapeutics of these viruses. It also explicitly describes the challenges imposed by the emerging and transboundary viral infections and our preparedness to counter them.

Infectious diseases are the leading cause of death globally, particularly among children and young

adults. The spread of new pathogens and the threat of antimicrobial resistance pose particular challenges in combating these diseases. Major Infectious Diseases identifies feasible, cost-effective packages of interventions and strategies across delivery platforms to prevent and treat HIV/AIDS, other sexually transmitted infections, tuberculosis, malaria, adult febrile illness, viral hepatitis, and neglected tropical diseases. The volume emphasizes the need to effectively address emerging antimicrobial resistance, strengthen health systems, and increase access to care. The attainable goals are to reduce incidence, develop innovative approaches, and optimize existing tools in resource-constrained settings.

Swine can be infected with many different mycoplasmas. Some are important pathogens, causing significant health and welfare issues in pigs and major losses to the swine industry worldwide. Other mycoplasmas are not pathogenic for swine and can be considered commensals. This book provides up-to-date scientific, clinical and practical information of the most important pathogenic mycoplasmas in swine. Most emphasis has been placed on *Mycoplasma hyopneumoniae* as the most economically important, but other pathogenic species like *Mycoplasma hyorhinis*, *Mycoplasma hyosynoviae* and *Mycoplasma suis* are also discussed. Written by internationally renowned scientists and clinicians from all over the world, this book draws together in depth knowledge, expertise and experience in swine mycoplasmas to provide an evidence-based, academically rigorous and practical collection. It aims to serve the scientific and veterinary community and the swine industry worldwide.

The confirmed case of "mad cow" disease (BSE) in June 2005 illustrates the economic impact of disease outbreaks, as additional countries closed their markets to U.S. beef and beef products. Emerging diseases also threaten public health-11 out of 12 of the major global disease outbreaks over the last decade were from zoonotic agents (that spread from animals to humans). Animal Health at the Crossroads: Preventing, Detecting, and Diagnosing Animal Diseases finds that, in general, the U.S. animal health framework has been slow to take advantage of state-of-the-art technologies being used now to protect public health; better diagnostic tests for identifying all animal diseases should be made a priority. The report also recommends that the nation establish a high-level, authoritative, and accountable coordinating mechanism to engage and enhance partnerships among local, state, and federal agencies, and the private sector.

The recent introduction and spread of African swine fever (ASF) into Europe and Asia has shown that an integrated, multidisciplinary effort is needed to tackle this disease and the complex challenges it poses. This book presents practical guidelines on surveillance for detection of ASF virus, how to prevent outbreaks in the domestic pig sector through biosecurity and cleaning and disinfection routines, including in backyard holdings, and how to control and eradicate this disease in wild boar. Information on pathological lesions and diagnostic practices are provided to support practitioners. Virus infection mechanisms and the consequent host immune response are reported together with an overview on the status of vaccine and treatment development. Information on ASF epidemiology and the European wild boar and domestic pig populations is presented to assist breeders, wildlife managers and policy makers in designing practices aimed at preventing, or controlling and eradicating, this disease. The book provides currently available knowledge in a single place, and identifies knowledge gaps, prompting policy makers and funding bodies to support the scientific community in investigating the gaps.

Treat the diseases affecting large animals! Veterinary Medicine, 11th Edition provides up-to-date information on the diseases of horses, cattle, sheep, goats, and pigs. Comprehensive coverage includes the principles of clinical examination and making a diagnosis, along with specific therapy recommendations. For easier use, this edition has been divided into two volumes and restructured into a logical, anatomically based approach to disease. From internationally known veterinary experts Peter Constable, Kenneth Hinchcliff, Stanley Done, and Walter Grünberg, this book is the definitive, one-stop reference for farm animal and equine care. Comprehensive coverage includes information essential to any large-animal veterinarian, especially those working with horses, cattle,

sheep, goats, or pigs. Coverage of diseases addresses major large-animal diseases of all countries, including foreign animal and emerging diseases. User-friendly format makes it easier to quickly absorb key information. Quick review/synopsis sections make important information on complex diseases easy to find. NEW! Convenient, easy-access format is organized by organ systems, and divides the content into two compact volumes with the same authoritative coverage. Nearly 200 new color photographs and line drawings are included in this edition. NEW full-color design improves navigation, clarifies subject headings, and includes more boxes, tables, and charts for faster reference. New Diseases Primarily Affecting the Reproductive System chapter is added. Updated and expanded chapter on pharmacotherapy lists therapeutic interventions and offers treatment boxes and principles of antibiotic use. Expanded sections on herd health include biosecurity and infection control, and valuable Strength of Evidence boxes. NEW or extensively revised sections include topics such as the Schmallenberg and Bluetongue viral epidemics of ruminants in Europe, Wesselbron disease in cattle, hypokalemia in adult cattle, equine multinodular pulmonary fibrosis, Hendra virus infection, porcine reproductive and respiratory syndrome, torque teno virus, and numerous recently identified congenital and inherited disorders of large animals. Additional content is provided on lameness in cattle and the diseases of cervids.

Written by leading food animal researchers, practitioners, and educators, this comprehensive guide provides quick access to the latest medical and surgical interventions for cattle, sheep, and goats. The concise, quick-reference format and logical body systems organization make it ideal for use in both the clinical setting and the field. You'll easily locate key information on preventing, treating, and managing disease in food animals, as well as expert insights on improving outcomes for individual animals and herd populations. Authoritative, cutting-edge coverage offers clinically relevant strategies for diagnosing and managing a wide range of diseases and disorders in food animals, with a focus on cattle, sheep, and goats. Logically organized content is easy-to-follow and provides a practical approach to determining appropriate medical and surgical interventions. Concise, easy-to-read format helps you find essential information quickly and easily. Expert editors, consultants, and writers ensure the accuracy, relevance, and timeliness of each topic to keep you on the cutting edge of food animal therapy. New editors and a new team of section editors bring a fresh perspective and authoritative guidance on caring for food animals. Completely revised and updated content includes new sections on topics such as: Genital surgery Pharmacology and therapeutics Restraint, anesthesia, and pain management Cow-calf/small ruminant production medicine Feedlot production medicine Coverage of hot topics in the field includes biosecurity in feedlots, therapy in organic livestock medicine, and ethical responsibilities in selecting drugs for use in food animals. Expanded treatment options incorporate surgical interventions where appropriate, including laparoscopic procedures.

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.

African swine fever (ASF) is caused by a virus that is classified as a member of the Iridovirinae family. The disease in the warthog, the natural host, in Africa was described in 1921 by R. E. Montgomery. The reservoir of the virus is intact. The introduction of domestic pigs into territory occupied by warthogs infected with ASF in the 1960's has endangered the pig industry around the world. The domestic pig is highly sensitive to ASF and develops a devastating disease that kills the pig without giving the immune system a chance to defend the animal against the virus infection. The ability of ASF virus to infect and destroy cells of the reticuloendothelial system leaves a defenseless host that succumbs to an infection which may be described as an acquired immune deficiency disease of domestic pigs. Introduction of the virus into Iberia in the 1960's led to a series of ASF epidemics in Spain and Portugal . . . and later in France, that caused heavy economic losses. Between 1976 and 1960, ASF virus made its appearance in Malta and Sardinia . . . as well as in Brazil, The Dominican Republic . . . Haiti, and later in Cuba. In 1985-6 . . . ASF appeared in Belgium and The Netherlands.

Clinical examination and marking a diagnosis; General systemic states; Diseases of the newborn; Practical antimicrobial therapeutics; Diseases of the alimentary tract I; Diseases of the alimentary tract II; Diseases of the liver; Diseases of the cardiovascular system; Diseases of the blood and blood-forming organs; Diseases of the respiratory system; Diseases of the urinary system; Diseases of the nervous system; Diseases of the musculoskeletal system; Disease of the skin and conjunctiva; Diseases of the skin and conjunctiva; Mastitis; Diseases caused bacteria I; Diseases caused by bacteria III; Diseases caused by bacteria IV; Diseases caused by bacteria V; Diseases caused by viruses and chlamydia I; Diseases caused by viruses and chlamydia II; Diseases caused by Rickettsia; Disease caused by fungi; Disease caused by Protozoa; Diseases caused by arthropod parasites; Metabolic diseases; Disease caused by nutrition deficiencies; Diseases caused by physical agents; Diseases caused by chemical agents I; Diseases caused by chemical agents II; Diseases caused by allergy; Diseases caused by the Inheritance of Undesirable characters; Specific diseases of unknown or uncertain etiology.

Trends in Emerging Viral Infections of Swine includes sections on global trade, vaccination regimens against new and emerging viruses, epidemiology and control, as well as significant new outbreaks like the West Nile virus. A contributor to Diseases of Swine, 8th edition, Dr. Zimmerman has selected three additional editors with international expertise.

Supersedes 2nd ed. 1987 (reprinted 1999) (ISBN 9275115036) (Scientific publication 503) and all previous eds. Also available as part of the complete 3 vol. set (ISBN 9275119910).

Foot-and-mouth disease (FMD) has been recognized in printed records dating from the sixteenth century, and since the eradication of rinderpest (cattle plague) in the early part of the twentieth century it has been recognized as the most important and feared disease of cattle and other domestic livestock. The beginning of the twenty-first century brought the worst outbreak of FMD ever experienced in England, which had been completely free of the disease for 33 years. This tragic epidemic, which spread to Northern Ireland, Scotland, France and the Netherlands with severe economic consequences, emphasized the need for further research into better methods for the detection and control of the disease. FMD is caused by a small RNA virus which is highly contagious and can survive in meat and other animal products for long periods at normal pH levels. The virus typically infects cloven-hoofed animals, including cattle, goats, pigs and sheep, as well as a wide range of non-domesticated animals in regions of the world where FMD virus is endemic, such as the African continent. There are seven recognized serotypes of FMD virus, with numerous subtypes, and as a consequence vaccine production and administration is complex and a major debate surrounds every disease outbreak regarding the relative merits of vaccination as opposed to the slaughter of all infected animals.

Polymicrobial diseases, those involving more than one etiologic agent, are more common than is generally realized and include respiratory diseases, gastroenteritis, conjunctivitis, keratitis, hepatitis, periodontal diseases, multiple sclerosis, genital infections, intra-abdominal infections, and pertussis.

Pork is one of the world's most widely consumed meats, with the pig industry undergoing recent rapid expansion across Asia and Latin America. This textbook covers more than 100 of the most common pig diseases. With each presented as a case study, the book uses a question and answer format to enable students to recognize the key features of each disease, identify the problem and suggest a course of action. Fully illustrated throughout with colour photos, this is an invaluable learning tool for veterinary, animal science and agricultural students, as well as a useful resource for veterinarians.

Provides a fully revised Eleventh Edition of the definitive reference to swine health and disease Diseases of Swine has been the definitive reference on swine health and disease for over 60 years. This new edition has been completely revised to include the latest information, developments, and research in the field. Now with full color images throughout, this comprehensive and authoritative resource has been redesigned for improved consistency and readability, with a reorganized format for more intuitive access to information. Diseases of Swine covers a wide range of essential topics on swine production, health, and management, with contributions from more than 100 of the foremost international experts in the field. This revised edition makes the information easy to find and includes expanded information on welfare and behavior. A key reference for anyone involved in the swine industry, Diseases of Swine, Eleventh Edition: Presents a thorough revision to the gold-standard reference on pig health and disease Features full color images throughout the book Includes information on the most current advances in the field Provides comprehensive information on swine welfare and behavior Offers a reorganized format to make the information more accessible Written for veterinarians, academicians, students, and individuals and agencies responsible for swine health and public health, Diseases of Swine, Eleventh Edition is an essential guide to swine health. "The 11th edition of Diseases of Swine continues to serve as the gold-standard resource for anything and everything related to swine herd health...this edition does an outstanding job of keeping up with the advanced diagnostic technologies and the latest research on new or emerging diseases and syndromes...there is no other informational resource that comes close to providing the depth or quality of information on the topic of swine diseases as does this book"

This book, Mechanisms in the Pathogenesis of Enteric Diseases 2, is an outcome of the Second International Rushmore Conference on Mechanisms in the Pathogenesis of Enteric Diseases, held September 30-October 3, 1998 in Rapid City, South Dakota, USA. Its chapters represent many of the reviews and papers presented at the conference. The meeting was organized by members of the North-Central Regional Research Committee "NC-62", a consortium of researchers of bovine and swine enteric diseases from land-grant institutions supported by the United States Department of Agriculture. The Rushmore Conferences were conceived as a forum for an interdisciplinary discussion of mechanisms of infectious enteric diseases. It was intended that such a discussion would stimulate cross-pollination of ideas, and nurture synergistic collaborations among scientists who might otherwise not interact. Enteric diseases are caused by widely divergent pathogens and parasites in broadly different settings, and affect multiple organ systems. Some enteric diseases affect a single species, while others may affect multiple species, perhaps including human beings. Some enteric diseases were present in antiquity, while others have recently emerged. Knowledge regarding a particular disease or pathogen has frequently proven useful in understanding another disease or pathogen, because common themes in pathogenesis exist. As this knowledge base grows, strategies in the prevention and control of various enteric diseases often converge. Cross-disciplinary discussions and collaborations facilitate growth of this knowledge base, as well as development of tools for disease interdiction.

The Book Diseases And Parasites Of Swine Divided Into 11 Chapters: Hog Cholera, Swine Erysipelas, Enteritis Of Swine, Swine Influenza, Miscellaneous Diseases Of Swine, Brucellosis (Infectious Abortion) In Swine, Mange Of Swine, Hog Lice, Internal Parasites Of Swine, Trichinosis, Salt Tolerance And Salt Poisoning Of Swine, Nutritional Diseases Of Swine. Equally Useful As A Handy Reference Source For Students Of Veterinary Courses And Also For Practicing Veterinarians. The Book Compiles The Necessary Available Information Related To Various Diseases Of The Swine. The Text Has Been Adeptly Illustrated Through Photographs And A Comprehensive Subject Index Have Been Provided To Enhance The Utility Of The Book. Contents Chapter 1: Hog Cholera By C N McBryde, Chapter 2: Swine Erysipelas By H W Schoening, G G Grey & O I Osteen, Chapter 3: Enteritis Of

Swine By C N Dale, Chapter 4: Swine Influenza By C N Dale, Chapter 5: Miscellaneous Diseases Of Swine By G T Creech, Chapter 6: Brucellosis (Infectious Abortion) In Swine By Adolph Eichhorn, Chapter 7: Mange Of Swine By Marion Imes, Chapter 8: Hog Lice By O G Babcock & E C Cushing, Chapter 9: Internal Parasites Of Swine By L A Spindler, Chapter 10: Trichinosis By Benjamin Schwartz, Chapter 11: Salt Tolerance And Salt Poisoning Of Swine By N R Ellis, Chapter 12: Nutritional Diseases Of Swine By Louis L Madsen.

Livestock production is changing worldwide. Amongst the changes are those instigated by legislation such as restrictions on antibiotics and antibiotic growth promoters, welfare regulations, etc., all forcing livestock producers to adapt to new husbandry, management, nutrition and healthcare techniques. Food safety is an explosive political issue. The expectations and demands of the informed consumer have altered perceptions of risk and brought food safety to the very front and centre of politics. The gastrointestinal tract is essential in the maintenance of health, wellbeing and production in livestock. The above changes impact feed formulation. The industry looks for alternatives to maintain intestinal health and maximise animal performance, whilst complying with increasingly stringent legislation. This requires a good understanding of the physiological processes involved. In this book, the current knowledge in the major monogastric production species (pigs and chicken) is reviewed by renowned experts in the field. It describes infectious and non-infectious challenges as well as the complex interaction between innate, cellular and humoral immunity and performance. The problems that this complexity poses concerning the identification of important factors for intestinal health are discussed. 'Intestinal health' also reviews promising new approaches such as the use and development of validated biomarkers, and the application of omics techniques and systems biology.

First published in 1958, Diseases of Swine, Tenth Edition is a fully revised and updated version of this classic reference. Now published in association with the American Association of Swine Veterinarians, the Tenth Edition adds new knowledge throughout in a reorganized format to provide more intuitive access to information. With chapters written by more than 150 of the foremost experts in the field, Diseases of Swine remains the premier source of comprehensive information on swine production, health, and management for swine health specialists of all disciplines and at any level of expertise, including veterinarians, researchers, and students. Featuring a new content organization designed for improved navigability, the Tenth Edition adds chapters on the cardiovascular system, diagnostic tests and test performance, food safety and zoonotic diseases, show and pet pigs, and the most current information on both long-recognized and emerging pathogens. Diseases of Swine, Tenth Edition is an indispensable resource for anyone interested in swine health.

This detailed volume explores the most popular antigen production and delivery strategies that have been tested in veterinary species. Viral vectors as well as genetic and protein subunit vaccines or large scale protein production systems are considered as well as an updated view of most options available for vaccine development, including the data obtained through experimental trials which contributes to the exploration and understanding of the immune mechanisms and immune correlates relevant in protection among different animal species. Written for the highly successful Methods in Molecular Biology series, chapters include brief introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Vaccine Technologies for Veterinary Viral Diseases: Methods and Protocols facilitates access to well-established protocols to those beginning in this interesting and laborious field as well as providing important basic knowledge when attempting a novel vaccine design or platform.

Fenner's Veterinary Virology, Fourth Edition, is the long awaited new edition of Veterinary Virology, 3e, which was published in 1999. Fully revised and updated by the new author team, part I presents the fundamental principles of virology related to animal infection and disease, and part II addresses the clinical features, pathogenesis, diagnosis, epidemiology and prevention of individual diseases. New to this Edition New author team - one main author to ensure that the book reads like an authored book but with the benefit of using experts to contribute to specific topics Text has been refocused - part I has been condensed and where appropriate incorporated into part II to make it more user friendly The number of figures have been increased and are now in full color Fully revised and updated to include the latest information in the field of veterinary virology Beautifully illustrated color figures throughout Organized and current information provided by an expert team of authors

Advancements and Technologies in Pig and Poultry Bacterial Disease Control provides the most up-to-date knowledge on the tools and technologies used in the economics, prevention, monitoring

and control of the most important bacterial diseases in these two important livestock species. Written by international experts in veterinary medicine, veterinary science, agricultural economics and environmental monitoring, this book provides state-of-the-art information regarding the application of technology to the prevention and control of bacterial disease in pigs and poultry. It presents the most up-to-date information on the major bacterial pathogens, why they are important, their epidemiology, pathogenesis and molecular basis of their virulence. Additional sections examine how genomic sequencing addresses the development of disease biomarkers for faster and highly specific diagnosis and how next generation sequencing can identify good and bad microflora. This book will be a valuable resource for veterinarians, epidemiologists, animal scientists, technologists, and researchers studying precision livestock farming. Students in veterinary, animal science and bio-science courses will also find it useful for its coverage of diseases and monitoring tools. Highlights crossover technologies from human to veterinary medicine, including the use of bioinformatics and genomics for disease prevention. Uses results from the EU FP7-funded ProHealth project, the largest of its type ever awarded by the EU. Examines how genomic analysis via next generation sequencing and microarray platforms can be exploited to develop novel biomarkers of bacterial disease in animals. Reports on novel environmental monitoring tools and their use in determining disease threshold levels within herds and flocks.

Filling a much needed place in veterinary medicine, Handbook of Pig Medicine provides the knowledge needed to recognize, diagnose, treat and control pig diseases in practice. The book includes high quality illustrations which, where appropriate, complement written descriptions of clinical signs. It deals with medical, surgical and reproductive problems in pigs. Clinical examination of the individual pig and the investigation of herd problems are covered in detail, along with a study on pig population medicine. Each body system is considered with special attention to clinical signs, diagnosis and treatment. Additionally, chapters in the book discuss obstetrics, pig haematology and biochemistry as well as differential diagnosis. Other topics discussed, include organic and outdoor pigs; problems of the pet pig, sampling, euthanasia and post-mortem examination. Written by two experienced clinicians and clinical teachers. Succinct, reader-friendly text intended for quick and effective use. Over 250 high quality colour illustrations support the text. Detailed description of clinical examination of pigs - an essential part of diagnosis. Provides students and clinicians with the knowledge and the skills to deal with pig patients effectively.

This detailed book explores new molecular biological techniques for the detection of both antigens and antibodies of porcine diseases. Assays examined within this collection include improved methods of nucleic acid extraction, polymerase chain reaction (PCR), droplet digital PCR (ddPCR), polymerase spiral reaction (PSR), cross-priming amplification (CPA), enzyme-linked immunosorbent as-

say (ELISA), as well as peptide nucleic acid (PNA) based tools, aptamer-based tools, and lateral flow assays and different immune assay-based diagnostics for porcine diseases. As part of the Springer Protocols Handbooks series, the present book contains the type of in-depth knowledge on important diagnostics tools that provide a vital source of information for scientists, researchers, and students from different fields. Authoritative and practical, Protocols for the Diagnosis of Pig Viral Diseases aims to guide researchers toward developing new technologies for the diagnosis of pig pathogens.

African animal trypanosomiasis (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.

First published in 1958, the Tenth Edition is a fully revised and updated version of this classic reference. Now published in association with the American Association of Swine Veterinarians, the Tenth Edition adds new knowledge throughout in a reorganized format to provide more intuitive access to information. Diseases of Swine remains a source of comprehensive information on swine production, health, and management for swine health specialists of all disciplines and at any level of expertise, including veterinarians, researchers, and students. Featuring a new content, the Tenth Edition adds chapters on the cardiovascular system, diagnostic tests and test performance, food safety and zoonotic diseases, show and pet pigs, and the most current information on both long-recognized and emerging pathogens.

Whilst it can mean enhanced biosecurity, more intensive and globalised pig production (based on a narrowing genetic base) also potentially increases the risk of disease and its spread. It has been es-

timated that production diseases can lower pig production efficiency by 10-15%, though financial losses can be much greater. The sector must allocate more resources to the creation and development of preventative measures that can be used to tackle the threat of disease. Optimising pig herd health and production provides a comprehensive review of the wealth of research on optimising pig health to prevent the development and consequent spread of diseases that can devastate the industry, such as African Swine Fever (ASF) and Porcine Reproductive and Respiratory Syndrome (PRRS). Chapters in this volume consider the methods used to prevent disease outbreaks, ranging from on-farm strategies, such as managing feed, housing and stocking density to optimise health, to the development and use of vaccines.

For more than forty years, animal health professionals have turned to the Merck Veterinary Manual for integrated, concise and reliable veterinary information. Now this manual covering the diagnosis, treatment, and prevention of diseases of companion, food and zoo animals is available on an easy-to-use, fully searchable CD-ROM. The CD includes the full text of The Merck Veterinary Manual 8/e and has been enhanced with picture links featuring original anatomical artwork and numerous clinical and diagnostic illustrations, table links and quick search links that provide quick access to cross referenced text.

This book aims to provide an updated overview on the most common pathogens responsible for porcine respiratory disease complex. The authors, all renowned and award-winning experts with a wide experience in respiratory diseases in pigs, have focused their efforts on gathering the latest information and data available on the topics covered while making the book as readable as possible.

Laboratory Animal Medicine is a compilation of papers that deals with the diseases and biology of major species of animals used in medical research. The book discusses animal medicine, experimental methods and techniques, design and management of animal facilities, and legislation on laboratory animals. Several papers discuss the biology and diseases of mice, hamsters, guinea pigs, and rabbits. Another paper addresses the dog and cat as laboratory animals, including sourcing of these animals, housing, feeding, and their nutritional needs, as well as breeding and colony management. The book also describes ungulates as laboratory animals, including topics on sourcing, husbandry, preventive medical treatments, and housing facilities. One paper addresses primates as test animals, covering the biology and diseases of old world primates, Cebidae, and ferrets. Some papers pertain to the treatment, diseases, and needed facilities for birds, amphibians, and fish. Other papers then deal with techniques of experimentation, anesthesia, euthanasia, and some factors (spontaneous diseases) that complicate animal research. The text can prove helpful for scientists, clinical assistants, and researchers whose work involves laboratory animals.