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CLINICAL RESEARCH IN PAEDIATRIC PSYCHOPHARMACOLOGY

AN OVERVIEW OF THE ETHICAL,
SCIENTIFIC AND REGULATORY ASPECTS

EDITED BY PHILIPPE AUBY



Kindle File Format Fenner's Veterinary Virology

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Fenner's Veterinary Virology-N. James Maclachlan 2018-11-13 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

Fenner's Veterinary Virology-N. James Maclachlan 2010-11-26 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

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Fenner's Veterinary Virology-N. James Maclachlan 2010-12-15 Fenner's Veterinary Virology, Fifth Edition, is a comprehensive reference of global importance that features coverage on viral agents, viral diseases of animals, and newly emerging viral zoonotic diseases. It is an excellent first port of call for researchers and students alike, presenting the fundamental principles of virology, virus structure, genome replication, and viral diseases, while also focusing on the topics' clinical aspects. Organized on a taxonomic basis, readers can quickly understand how the virus (or the viral diseases) fits into the bigger picture of the virus genus and family. The basic information about each virus, such as disease, transmission, control, and treatment are useful for veterinary students and clinicians for their practices in disease management and prevention. Revised and updated to include taxonomic organization changes and topical information Provides a comprehensive overview of viruses and viral diseases of veterinary significance Includes global contributions from thought leaders Emphasizes new and emerging viral diseases

Veterinary Virology-Frank Fenner 1993 FROM THE REVIEWS OF THE FIRST EDITION "Directed toward students of multiple disciplines in veterinary medicine, all can reap the benefits of this current, clear, logical, well illustrated, and easily read text." - ASM NEWS This new edition of Veterinary Virology has been completely revised. Like the First Edition, it is divided into two parts: Principles of Animal Virology and Viruses of Domestic Animals. A new family has been introduced (Circoviridae) and advances in retrovirology, viral diagnosis, and viral immunity, including antigen processing and presentation, are discussed.

Fenner and White's Medical Virology-Christopher J. Burrell 2016-11-09 Fenner and White's Medical Virology, Fifth Edition provides an integrated view of related sciences, from cell biology, to medical epidemiology and human social behavior. The perspective represented by this book, that of medical virology as an infectious disease science, is meant to provide a starting point, an anchor, for those who must relate the subject to clinical practice, public health practice, scholarly research, and other endeavors. The book presents detailed exposition on the properties of viruses, how viruses replicate, and how viruses cause disease. These chapters are then followed by an overview of the principles of diagnosis, epidemiology, and how virus infections can be controlled. The first section concludes with a discussion on emergence and attempts to predict the next major public health challenges. These form a guide for delving into the specific diseases of interest to the reader as described in Part II. This lucid and concise, yet comprehensive, text is admirably suited to the needs of not only advanced students of science and medicine, but also postgraduate students, teachers, and research workers in all areas of virology. Features updated and expanded coverage of pathogenesis and immunity Contains the latest laboratory diagnostic methods Provides insights into clinical features of human viral disease, vaccines, chemotherapy, epidemiology, and control

Aquaculture Virology-Frederick S. B. Kibenge 2016-07-11 To date textbooks on viruses infecting fish, crustaceans and molluscs, the three main aquatic animal farmed groups, have been on the whole “disease-centric and individual viral diseases selected based on “epizoo-centric approaches with little to no coverage of the basic biology of the viruses, in contrast to textbooks on viruses infecting terrestrial - farmed, pet, and free-range (wild) - animals and humans. Despite considerable advances in animal virology in recent years coupled with an economically important global aquaculture industry, knowledge of viruses of animal aquaculture is still sparse and in some cases outdated although these viruses are closely related to well-known virus families. The last book in fish virology (Fish viruses and fish viral diseases 1988, Wolf, K.) was published in the 1980s. A lot of work has been done on fish viruses and many new aquatic animal viruses continue to be discovered. Aquaculture Virology provides the current state of knowledge of aquatic animal viruses within the current virus classification and taxonomic context thereby allowing the reader to draw on the principles of general virology. This book is a systematic and concise resource useful to anyone involved with or looking to move into aquaculture and fisheries. Clinical veterinarians, aquaculture disease practitioners, biologists, farmers, and all those in industry, government or academia who are interested in aquatic animal virology will find this book extremely useful. Provides unique comprehensive information on animal viruses for aquaculture and fisheries Presents high quality illustrations of viral structure, diagrams of viral disease processes, gross pathology and histopathology lesions, and summary tables to aid in understanding Describes aquatic animal viruses of the three major aquatic animals, fish, crustaceans, and molluscs, within the current virus classification and taxonomic context thereby allowing the reader to draw on the principles of general virology

Veterinary Microbiology-D. Scott McVey 2013-05-30 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.

Mononegaviruses of Veterinary Importance-Muhammad Munir 2016-12-16 The Mononegavirales is an order of viruses affecting large, small and marine animals and is responsible for diseases including Rinderpest, Rabies and Ebola. This book discusses the epidemiology and control of Mononegaviruses that pose a significant threat to animals in terms of severity and epidemiological risk. The book also addresses viruses with zoonotic potential, and many that can be used as models in the study of infectious disease. With its comprehensive coverage, each chapter is dedicated to a different disease and has been authored by renowned scientists who have made seminal contributions to the field. This prestige reference work is arranged over two volumes: volume 1 pathobiology and molecular diagnosis, and volume 2 molecular epidemiology and control. This broad ranging text coversmononegaviral diseases of livestock, horses, dogs and cats as well as rodents, primates, fish and marine mammals, and will be a valuable reference source for virologists, field veterinarians, infection and molecular biologists as well as immunologists and animal scientists.

Viruses and Human Disease-Ellen G. Strauss 2007-09-21 Completely revised and updated, the new edition of this groundbreaking text integrates basic virology with pathophysiological conditions to examine the connection between virology and human disease. Most virology textbooks focus on the molecular biology involved without adequate reference to physiology. This text focuses on viruses that infect humans, domestic animals and vertebrates and is based on extensive course notes from James Strauss' virology class at the California Institute of Technology taught for over 30 years. Expertly depicting in color the molecular structure and replication of each virus, it provides an excellent overview for students and professionals interested in viruses as agents of human disease. Includes over 30% new material - virtually all of the figures and tables have been redrawn to include the latest information and the text has been extensively rewritten to include the most up-to-date information Includes a new chapter on emerging and reemerging viral diseases such as avian flu, SARS, the spread of West Nile virus across America, and the continuing spread of Nipah virus in Southeast Asia Further reading sections at the end of each chapter make it easy find key references World maps depicting the current distribution of existing and newly emerging viruses are also incorporated into the text

The Nature of Viruses-G. E. W. Wolstenholme 2009-09-18 The Novartis Foundation Series is a popular collection of the proceedings from Novartis Foundation Symposia, in which groups of leading scientists from a range of topics across biology, chemistry and medicine assembled to present papers and discuss results. The Novartis Foundation, originally known as the Ciba Foundation, is well known to scientists and clinicians around the world.

Veterinary Microbiology and Microbial Disease-P. J. Quinn 2011-10-17 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.

The Parvoviruses-Kenneth I. Berns 2013-03-09 The Parvoviridae have been of increasing interest to reseachers in the past decade. Their small size and simple structure have made them ame nable to detailed physiochemical analysis, and from this work relatively detailed information has resulted that has significantly increased our un derstanding of the biology of these viruses. It has become clear that the Parvoviridae are of interest not only for their own sake, but also because their relative simplicity renders them useful probes in the study of the biology of host cells and of other DNA viruses with which they interact. The Dependovirus genus, for instance, contains the defective adeno-as sociated viruses (AA V), which require a coinfection with either an ad enovirus or a herpesvirus for productive multiplication. Studies of AA V, therefore, necessarily impinge on our understanding of the control of macromolecular synthesis by the helper virus. Similarly AA V has been reported to inhibit the oncogenicity of both adeno-and herpesviruses and has been used as a probe of mechanism in these instances as well. Finally, AA V establishes latent infections in vivo and is the only mammalian DNA virus where a comparable model system has been established in cell culture. This system has allowed study of the mechanism of latent infection at the molecular level."

Veterinary Neuroanatomy - E-BookChristine E Thomson 2012-04-05 Veterinary Neuroanatomy: A Clinical Approach is written by veterinary neurologists for anyone with an interest in the functional, applied anatomy and clinical dysfunction of the nervous system in animals, especially when of veterinary significance. It offers a user-friendly approach, providing the principal elements that students and clinicians need to understand and interpret the results of the neurological examination. Clinical cases are used to illustrate key concepts throughout. The book begins with an overview of the anatomical arrangement of the nervous system, basic embryological development, microscopic anatomy and physiology. These introductory chapters are followed by an innovative, hierarchical approach to understanding the overall function of the nervous system. The applied anatomy of posture and movement, including the vestibular system and cerebellum, is comprehensively described and illustrated by examples of both function and dysfunction. The cranial nerves and elimination systems as well as behaviour, arousal and emotion are discussed. The final chapter addresses how to perform and interpret the neurological examination. Veterinary Neuroanatomy: A Clinical Approach has been prepared by experienced educators with 35 years of combined teaching experience in neuroanatomy. Throughout the book great care is taken to explain key concepts in the most transparent and memorable way whilst minimising jargon. Detailed information for those readers with specific interests in clinical neuroanatomy is included in the text and appendix. As such, it is suitable for veterinary students, practitioners and also readers with a special interest in clinical neuroanatomy. Contains nearly 200 clear, conceptual and anatomically precise drawings, photographs of clinical cases and gross anatomical specimens Keeps to simple language and focuses on the key concepts Unique 'NeuroMaps' outline the location of the functional systems within the nervous system and provide simple, visual aids to understanding and interpreting the results of the clinical neurological examination The anatomical appendix provides 33 high-resolution gross images of the intact and sliced dog brain

and detailed histological images of the sectioned sheep brainstem. An extensive glossary explains more than 200 neuroanatomical structures and their function.

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Virology Methods Manual-Hillar O. Kangro 1996-04-16 The Virology Methods Manual is a comprehensive source of methods for the study, manipulation, and detection of viruses. Edited by Brian Mahy and Hillar Kangro, this work describes the most up-to-date, definitive techniques, provided by experts in each area, and presented with easy-to-use, step-by-step protocols. This new manual will satisfy the needs of virologists and all those working with viruses who need a practical guide to methods that work! Provides up-to-date techniques by experts worldwide Presents common, step-by-step protocols in an attractive, easy-to-use fashion Contains useful appendices including virus taxonomy, metabolic inhibitors, and Bio-safety in the virology laboratory

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Nature, Nurture and Chance-Frank Fenner 2006-07-01 Microbiologists; Virologists; Educators; Geographers; Biography; Australia.

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Emerging and Reemerging Viral Pathogens-Moulay Mustapha Ennaji 2019-09-14 Emerging and Reemerging Viral Pathogens: Applied Virology Approaches Related to Human, Animal and Environmental Pathogens, Volume Two presents new research information on viruses and their impact on the scientific community. It provides a reference book on certain viruses in humans, animals and vegetal, along with a comprehensive discussion on interspecies interactions. The book then looks at the drug, vaccine and bioinformatical strategies that can be used against these viruses, giving the reader a clear understanding of transmission. The book's end goal is to create awareness that the appearance of newly transmissible pathogens is a global risk that requires shared/adoptable policies for prevention and control. Covers most emerging viral disease in humans, animals and plants Provides the most advanced tools and techniques in molecular virology and the modeling of viruses Creates awareness that the appearance of new transmissible pathogens is a global risk Highlights the need to adopt shared policies for the prevention and control of infectious diseases

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The Reoviridae-Wolfgang K. Joklik 2013-11-21 It is now just 20 years since Gomatos and his co-workers at the Roche feller University showed that the nucleic acid in reovirus particles is double-stranded RNA (dsRNA). This discovery created great excitement, for dsRNA was at that time under intense investigation as the replicative form of viral genomes consisting of single-stranded RNA. An equally interesting and important finding followed soon after: it was found that the reovirus genome consists, not of a single nucleic acid molecule, but of 10 discrete "segments," each with its specific sequence content and each transcribed into its own messenger RNA. It is clear now that these segments are genes. Not surprisingly, the availability of a viral genome 10 unlinked genes has permitted some unique lines of in consisting of vestigation in molecular biology. Mammalian and avian reoviruses proved to be but the first of several viruses recognized as sharing Similarity in size and morphology and ge nomes consisting of 10, II, or 12 separate genes. These viruses are dis tributed throughout living organisms; among the natural hosts of mem bers of this virus family are vertebrates, Insects, and plants. Members of the Reoviridae family differ widely in the virulence that they exhibit toward their hosts . . For example, the first discovered mam malian reovirus literally is, as the name signifies, a "respiratory enteric orphan" virus, that is, a virus unassociated with disease.

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Veterinary Physiology and Applied Anatomy-Louise Tartaglia 2005 This text explains the underlying anatomical structure of small animals, and then explains the physiology of all the body systems applying theoretical concepts to actual clinical cases.

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Textbook of Veterinary Diagnostic Radiology-Donald E. Thrall 2012 Covering the principles of radiographic technique and interpretation for dogs, cats, and horses, Textbook of Veterinary Diagnostic Radiology, 6th Edition helps you develop proficiency in diagnostic skills. High-quality radiographic images accompany clear coverage of diagnostic radiology, ultrasound, MRI, and CT, as well as patient positioning, radiographic technique and safety measures, normal and abnormal anatomy, radiographic viewing and interpretation, and alternative imaging modalities. New to this edition is a chapter on MR spinal imaging and updated information on digital imaging. Written by radiology educator and expert Donald E. Thrall, along with a group of highly qualified, board-certified radiologists, this bestselling reference is a one-stop resource for the latest advances in veterinary diagnostic radiology. Clear explanations and a logical format simplify the principles of veterinary diagnostic radiology, including patient positioning, radiographic technique, specific anatomic features of the body part in question, methods of radiographic viewing and interpretation, and assessment and applications of alternative imaging modalities. High-quality radiographic images clarify key concepts and interpretation principles. Up-to-date coverage of the most commonly seen species in private veterinary practices and veterinary teaching hospitals includes the cat, dog, and horse. An atlas of normal radiographic anatomy in each section makes it easier to recognize abnormal radiographic findings. A discussion of radiation safety highlights measures that can protect you from harmful radiation exposure. NEW chapter on MR spinal imaging provides the latest information on the diagnosis of spinal cord disease through the use of CT and MRI. NEW information on digital imaging covers the newest advances in digital imaging. Updated coverage of procedures such as the esophagram, upper GI examination, excretory urography, and cystography helps in determining when and how these procedures are performed in today's practice. Revised chapters on basic interpretation make information easier to find, with in-depth discussions of the principles of image acquisition and interpretation, radiography, radiation safety, and basic coverage of normal variants.

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Pathology and Pathogenesis of Human Viral Disease-John E. Craighead 2000-03-15 Pathology and Pathogenesis of Human Viral Disease is a comprehensive reference that examines virus-induced clinical disease of humans in the context of the responsible virus and its epidemiology. Encompassing everything from cold and flu viruses to sexually transmitted diseases, this important resource describes the cellular and tissue pathological changes attributable to infection in the context of the pathogenic mechanisms involved. The author provides a comprehensive review of the older and contemporary literature, considering both the common and much rarer complications of infection. Pathology and Pathogenesis of Human Viral Disease is written from the unique perspective of the clinical pathologist. It will help clinicians and pathologists gain a better understanding of changes that occur in viral infected cells, tissues, and organs. It will also serve as a pathology source book for virologists, internists, and pediatricians. Key Features * Provides a comprehensive, worldwide perspective of viral disease pathology * Bridges the fields of pathology and virology; integrating clinical disease with cell and tissue pathology * Addresses topics from the perspective of the clinical pathologist * Illustrates unique, viral induced pathological lesions * Considers common and uncommon complications of infection

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Medical Virology-David O White 2016-06-03 Medical Virology

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Viral Ecology-Christon J. Hurst 2000-05-02 Viral Ecology defines and explains the ecology of viruses by examining their interactions with their hosting species, including the types of transmission cycles that have evolved, encompassing principal and alternate hosts, vehicles, and vectors. It examines virology from an organismal biology approach, focusing on the concept that viral infections represent areas of overlap in the ecology of viruses, their hosts, and their vectors. The relationship between viruses and their hosting species The concept that viral interactions with their hosts represents a highly evolved aspect of organismal biology The types of transmission cycles which exist for viruses, including their hosts, vectors, and vehicles The concept that viral infections represent areas of overlap in the ecology of the viruses, their hosts, and their vectors

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McDonald's Veterinary Endocrinology and Reproduction-Mauricio Pineda 2003 The long awaited update to this classic text, McDonald's Veterinary Endocrinology and Reproduction provides students of veterinary medicine and animal science a concise and practical textbook specifically for endocrinology and reproduction in domestic animals. The text brings together material only previously available as scattered resources. This fifth edition is completely reworked and updated, from chapter text to artwork. Topics include domestic species, llamas, and South American camelids with all aspects of reproductive anatomy and physiology incorporated.

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Avian Immunology-Karel A. Schat 2012-12-02 The second edition of Avian Immunology provides an up-to-date overview of the current knowledge of avian immunology. From the ontogeny of the avian immune system to practical application in vaccinology, the book encompasses all aspects of innate and adaptive immunity in chickens. In addition, chapters are devoted to the immunology of other commercially important species such as turkeys and ducks, and to ecoimmunology summarizing the knowledge of immune responses in free-living birds often in relation to reproductive success. The book contains a detailed description of the avian innate immune system, encompassing the mucosal, enteric, respiratory and reproductive systems. The diseases and disorders it covers include immunodepressive diseases and immune evasion, autoimmune diseases, and tumors of the immune system. Practical aspects of vaccination are examined as well. Extensive appendices summarize resources for scientists including cell lines, inbred chicken lines, cytokines, chemokines, and monoclonal antibodies. The world-wide importance of poultry protein for the human diet, as well as the threat of avian influenza pandemics like H5N1 and heavy reliance on vaccination to protect commercial flocks makes this book a vital resource. This book provides crucial information not only for poultry health professionals and avian biologists, but also for comparative and veterinary immunologists, graduate students and veterinary students with an interest in avian immunology. With contributions from 33 of the foremost international experts in the field, this book provides the most up-to-date review of avian immunology so far Contains a detailed description of the avian innate immune system reviewing constitutive barriers, chemical and cellular responses; it includes a comprehensive review of avian Toll-like receptors Contains a wide-ranging review of the "ecoimmunology" of free-living avian species, as applied to studies of population dynamics, and reviews methods and resources available for carrying out such research

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Molecular Virology of Human Pathogenic Viruses-Wang-Shick Ryu 2016-03-30 Molecular Virology of Human Pathogenic Viruses presents robust coverage of the key principles of molecular virology while emphasizing virus family structure and providing key context points for topical advances in the field. The book is organized in a logical manner to aid in student discoverability and comprehension and is based on the author's more than 20 years of teaching experience. Each chapter will describe the viral life cycle covering the order of classification, virion and genome structure, viral proteins, life cycle, and the effect on host and an emphasis on virus-host interaction is conveyed throughout the text. Molecular Virology of Human Pathogenic Viruses provides essential information for students and professionals in virology, molecular biology, microbiology, infectious disease, and immunology and contains outstanding features such as study questions and recommended journal articles with perspectives at the end of each chapter to assist students with scientific inquiries and in reading primary literature. Presents viruses within their family structure Contains recommended journal articles with perspectives to put primary literature in context Includes integrated recommended reading references within each chapter Provides access to online ancillary package inclusive of annotated PowerPoint images, instructor's manual, study guide, and test bank

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The Foundations of Virology-Frederick A. Murphy 2012-06-22 A profusely illustrated history of one of the hottest medical/biological sciences of all: virology - personalized in crediting the people who began the science concerned with invisible mysterious disease agents, and continuing to cite those who are still unraveling the nature of many of the most important pathogens of today.

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Origin and Evolution of Viruses-Esteban Domingo 2008-06-23 New viral diseases are emerging continuously. Viruses adapt to new environments at astounding rates. Genetic variability of viruses jeopardizes vaccine efficacy. For many viruses mutants resistant to antiviral agents or host immune responses arise readily, for example, with HIV and influenza. These variations are all of utmost importance for human and animal health as they have prevented us from controlling these epidemic pathogens. This book focuses on the mechanisms that viruses use to evolve, survive and cause disease in their hosts. Covering human, animal, plant and bacterial viruses, it provides both the basic foundations for the evolutionary dynamics of viruses and specific examples of emerging diseases. * NEW - methods to establish relationships among viruses and the mechanisms that affect virus evolution * UNIQUE - combines theoretical concepts in evolution with detailed analyses of the evolution of important virus groups * SPECIFIC - Bacterial, plant, animal and human viruses are compared regarding their interaction with their hosts

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Health of HIV Infected People-Ronald Ross Watson 2015-04-30 Health of HIV Infected People: Food, Nutrition and Lifestyle with Antiretroviral Drugs provides basic and applied knowledge on the supportive roles of bioactive foods, exercise, and dietary supplements on HIV/AIDS patients receiving antiretroviral drugs. Approaches include the application of traditional herbs and foods aiming to define both the risks and benefits of such practices. Readers will learn how to treat or ameliorate the effects of chronic retroviral disease using readily available, cheap foods, dietary supplements, and lifestyle changes with specific attention to the needs of patients receiving antiretroviral drugs. This work provides the most current, concise, scientific appraisal of the efficacy (or lack thereof) of key foods, nutrients, dietary plants, and behavioral shifts in preventing and improving the quality of life of HIV infected infants and adults, while also giving the needed attention to these complex and important side effects. Covers the role of nutrients in the prevention and treatment of HIV-induced physiological changes in children undergoing HAART, including covers of omega-3 fatty acids, dietary fat intake, metabolic changes, and vitamin D Explores food and the treatment of obesity, diabetes, and cardiovascular disease in HIV infected patients, including fundamental coverage and recommendations for care Provides coverage of fitness and exercise regimens, physical activity, and behavioral and lifestyle changes on HIV infected individuals Gives careful attention to the specific nutritional needs of patients undergoing HAART therapy

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Vaccines for Veterinarians E-Book-Ian R. Tizard 2019-11-19 Both a theoretical text and a practical handbook, Vaccines for Veterinarians is the first of its kind to bring the basic science of animal vaccination and the practical details of vaccine use together in one single volume. From the first chapter on the history of vaccination and the triumph of rinderpest eradication to the last chapter on the rapidly emerging field of cancer vaccines, this book offers a truly comprehensive grounding in established and emerging vaccines for both major and minor species. Specific topics include viral vectored vaccines, DNA-plasmid vaccines, RNA vaccines, reverse vaccinology, the complexities of adjuvant use, vaccine failures and adverse events, vaccine production and regulation, robotic vaccination machines, contraceptive and production-enhancing vaccines, and so much more. At a time when resistance to human vaccination is receiving much publicity, this evidence-based book is the ideal counter to ill-informed speculation — serving as a timely reminder that vaccination is essential for the control of infectious diseases in animals. Well-respected and experienced veterinary author, Ian Tizard, provides expert guidance on the topic of vaccinations and immunology in veterinary medicine. Expert Consult site offers an online version of the book, making it easy to search the entire book electronically. The latest information on viral vectored vaccines keeps you up-to-date on the topic as well as the properties and relative advantages of currently used vectors in animal vaccines. Survey of vaccine responses covers the different mechanisms by which the immune system responds to different types of vaccines. Inclusion of the latest vaccine technologies discusses the advantages and disadvantages of DNA-plasmid vaccines, RNA vaccines, and more. Coverage of adverse events and hypersensitivities includes the best ways to treat them and report them. Coverage of passive immunization discusses the growing use of therapeutic monoclonal antibodies in veterinary medicine. Coverage of immunotherapy includes recent improvements and new products in both active and passive immunotherapy against animal cancers.

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Adenoviral Vectors for Gene Therapy-David T. Curiel 2016-03-10 Adenoviral Vectors for Gene Therapy, Second Edition provides detailed, comprehensive coverage of the gene delivery vehicles that are based on the adenovirus that is emerging as an important tool in gene therapy. These exciting new therapeutic agents have great potential for the treatment of disease, making gene therapy a fast-growing field for research. This book presents topics ranging from the basic biology of adenoviruses, through the construction and purification of adenoviral vectors, cutting-edge vectorology, and the use of adenoviral vectors in preclinical animal models, with final consideration of the regulatory issues surrounding human clinical gene therapy trials. This broad scope of information provides a solid overview of the field, allowing the reader to gain a complete understanding of the development and use of adenoviral vectors. Provides complete coverage of the basic biology of adenoviruses, as well as their construction, propagation, and purification of adenoviral vectors Introduces common strategies for the development of adenoviral vectors, along with cutting-edge methods for their improvement Demonstrates noninvasive imaging of adenovirus-mediated gene transfer Discusses utility of adenoviral vectors in animal disease models Considers Federal Drug Administration regulations for human clinical trials

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Canine and Feline Infectious Diseases - E-BOOK-Jane E. Sykes 2013-06-06 Canine and Feline Infectious Diseases is a practical, up-to-date resource covering the most important and cutting-edge advances in the field. Presented by a seasoned educator in a concise, highly visual format, this innovative guide keeps you current

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with the latest advances in this ever-changing field. 80 case studies illustrate the clinical relevance of the major infectious disease chapters. Well-organized Major Infectious Diseases chapters break down content by etiologic agent and epidemiology, clinical signs and their pathophysiology, physical examination findings, diagnosis, treatment and prognosis, immunity, prevention, and public health implications. Over 80 case studies illustrate how the information provided can be applied in everyday practice. Logical approach to laboratory diagnosis guides you through all the steps needed to accurately diagnose and treat viral, bacterial, fungal, protozoal, and algal diseases. Practical protocols provided by expert clinicians guide you in the management of canine and feline patients suspected to have infectious diseases, including handling, disinfection, isolation, and vaccination protocols. Over 500 full color images - geographic distribution maps, life cycle drawings, and hundreds of color photographs - visually illustrate and clarify complex issues. Easy-to-understand tables and boxes make content quickly accessible, eliminating the need to sort through dense text for critical information in the clinical setting.

Blackwell's Five-Minute Veterinary Consult: Ruminant-Christopher Chase 2017-08-16 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

In Loeffler's Footsteps - Viral Genomics in the Era of High-Throughput Sequencing- 2017-10-20 In Loeffler's Footsteps - Viral Genomics in the Era of High-Throughput Sequencing, Volume 99, the latest in the Advances in Virus Research series, contains new information on the topic, with chapters covering Loeffler 4.0 - diagnostic metagenomics, Detection of a novel orthobunyavirus by metagenomic analysis - the situation after five years, New Squirrel and Rodent Viruses Detected by NGS, Astroviridae - A Growing Family, New Leaves in the Growing Pestivirus Tree, New BTV Serotypes and no End?, and The recently discovered Bokeloh Bat Lyssavirus - Evidence for its continued transmission in Europe. First published in 1953, this series covers a diverse range of in-depth reviews, providing a valuable overview of the current field of virology. The series is a valuable resource for information on all topics of virus research, from bacteriophages to human viruses, with this volume focusing on genomics. Contains contributions from leading authorities Informs and updates on all the latest developments in the field Features a diverse range of virology topics

The Geographical Distribution of Animal Viral Diseases-Stewart Hal 2012-12-02 The Geographical Distribution of Animal Viral Diseases attempts to shed some light on the global distribution of 110 different viral diseases, mainly of livestock and companion animals. The world literature was screened for 110 different viruses, and maps were prepared. These maps delineate the global distribution of pathogenic viruses based on authenticated reports from a variety of reliable sources. Four viruses were categorized as affecting more than one species to a significant degree (astrovirus, rabies, rotaviruses, and Rift Valley fever). The largest number of maps involved viruses that affect humans. Of the 28 viruses a large number were from the California encephalitis group. Ten of the 28 viruses were reported only in the Eastern Hemisphere, 14 only in the Western Hemisphere, and four were worldwide. Birds were the next most frequently affected group with the 15 viruses, followed by pigs with 14 viruses. Overall the vector-borne viruses appear to have much sharper and clear-cut geographical boundaries than the others.

Pathology of Laboratory Rodents and Rabbits-Stephen W. Barthold 2016-01-04 Now in its fourth edition, Pathology of Laboratory Rodents and Rabbits has become a standard text for veterinary pathologists, laboratory animal veterinarians, students, and others interested in these species. • The standard reference on the pathogenesis and cardinal diagnostic features of diseases of mice, rats, hamsters, gerbils, guinea pigs, and rabbits • Expanded coverage of rabbit disease, normal

anatomic features, and biology • Over 450 color photographs illustrating gross and microscopic pathology • Companion website offering images from the text in PowerPoint

Animal Virus Structure-M.V. Nermut 1987-10-01 Animal Virus Structure provides a comprehensive, state-of-the-art summary of the structure, molecular composition, and principal antigenic and biological properties of each currently recognized family of animal viruses. Information deriving from electron microscopy, computer image processing and X-ray diffraction is integrated systematically with biochemical data into three-dimensional molecular models of viral architecture. A brief account of virus/cell interaction and pathogenicity completes each chapter.

Principles of Virology-

Microbiological Analysis of Red Meat, Poultry and Eggs-G Mead 2006-11-30 Red meat, poultry and eggs are, or have been, major global causes of foodborne disease in humans and are also prone to microbiological growth and spoilage. Consequently, monitoring the safety and quality of these products remains a primary concern. Microbiological analysis is an established tool in controlling the safety and quality of foods. Recent advances in preventative and risk-based approaches to food safety control have reinforced the role of microbiological testing of foods in food safety management. In a series of chapters written by international experts, the key aspects of microbiological analysis, such as sampling methods, use of faecal indicators, current approaches to testing of foods, detection and enumeration of pathogens and microbial identification techniques, are described and discussed. Attention is also given to the validation of analytical methods and Quality Assurance in the laboratory. Because of their present importance to the food industry, additional chapters on current and developing legislation in the European Union and the significance of Escherichia coli 0157 and other VTEC are included. Written by a team of international experts, Microbiological analysis of red meat, poultry and eggs is certain to become a standard reference in the important area of food microbiology. Reviews key issues in food microbiology Discusses key aspects of microbiological analysis such as sampling methods, detection and enumeration of pathogens Includes chapters on the validation on analytical methods and quality assurance in the laboratory

Bluetongue Viruses-Polly Roy 2012-12-06 Bluetongue viruses (BTV) cause diseases that have serious economic consequences in ruminants (sheep, cattle) in many parts of the world. The incidence of bluetongue disease affects the international movement of animals and germ plasm. Although the etiological agent of the disease was isolated in 1900 and preliminary biochemical characterizations were published as early as in 1969, most of the current understanding of the molecular biology, biochemistry, and genetics of BTV has evolved only recently. Triggered by the modern techniques of molecular biology, genetics, and immunology, BTV research has experienced an information explosion in the past 10 years. However, much of this information is scattered throughout an extensive literature. It is therefore an appropriate time to meld this together into a reference book. This book includes comprehensive information on BTV research provided in articles contributed by researchers from around the world. It covers what is known about the molecular structure of the virus and the current understanding of its biology, evolution, and relationships with its invertebrate and vertebrate hosts (infection, immunity, and pathogenicity).