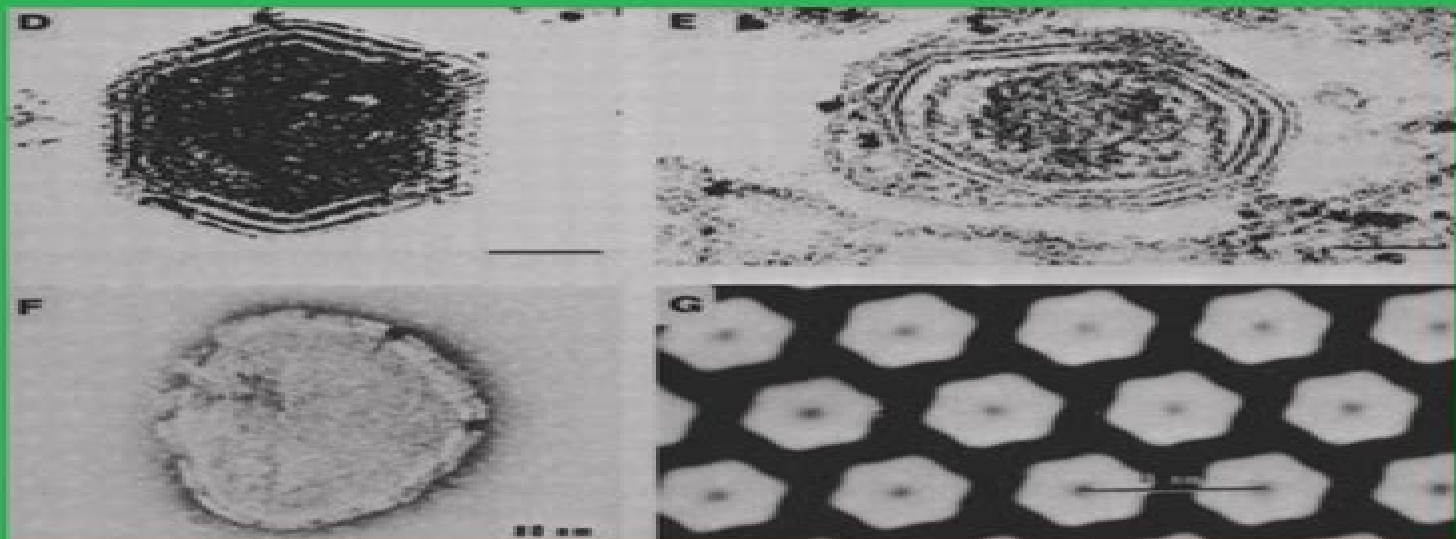


*Developments in
Veterinary Virology*

African Swine Fever

Edited by Yechiel Becker



Martinus Nijhoff Publishing

African Swine Fever Developments In Veterinary Virology

Jicheng Xie



African Swine Fever Developments In Veterinary Virology:

African Swine Fever Yechiel Becker,2012-12-06 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 vi rus is inti cks The i ntroduct i on of domestic pi gs into territory occupied by warthogs i nf ected wi th 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 di sease of domestic pi gs 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 , **Advances in Virus Research** ,1989-01-09 Advances in Virus Research **Diseases of Swine** Jeffrey J. Zimmerman, Eric R. Burrough, Locke A. Karriker, Kent J. Schwartz, Jianqiang Zhang, 2025-11-26 A comprehensively updated edition of the gold standard reference on swine health and disease This newly revised Twelfth Edition of Diseases of Swine is designed to serve as a comprehensive and detailed reference on swine health and disease It offers swine health specialists the information and knowledge they need to effectively respond to and treat pig diseases It provides coverage of individual pig and herd health making the book an effective resource for addressing diseases at the farm local regional and global levels With contributions and updates from more than 100 international experts in swine health this edition of Diseases of Swine provides improved organization and ease of access allowing readers to quickly find the information they need The new edition also includes new and updated chapters on surveillance monitoring and biosecurity as well as information concerning new emerged and transboundary infectious agents Readers will also find A thorough introduction to herd evaluation and considerations of pig behavior and welfare Comprehensive explorations of environment and health including recommended air temperatures minimum ventilation rates and more Practical discussions on differential diagnosis of disease Complete coverage of drug pharmacology therapy and prophylaxis Written for practicing swine veterinarians academicians and veterinary students Diseases of Swine Twelfth Edition will also benefit professionals working with agencies responsible for swine health public health or zoonotic diseases Trends in Emerging Viral Infections of Swine Antonio Morilla, Kyoung-Jin Yoon, Jeffrey J. Zimmerman, 2008-06-02 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 Unconventional Agents and Unclassified Viruses O.-R. Kaaden, W. Eichhorn, C.-P.

Czerny,2012-12-06 Among unconventional agents and unclassified viruses the contributions to this volume focused on prion related diseases with special emphasis on bovine spongiform encephalopathy and human spongiform encephalopathies and Borna disease virus an agent known since long time to be pathogenic for horses and sheep which is now discussed as a potential pathogen for humans Additionally the volume contains articles about newly discovered viruses like porcine respiratory and reproductive syndrome virus and viruses that are classified only provisionally like African swine fever virus hepatitis C and E viruses or the arteriviruses *African Swine Fever* Jose Manuel Sanchez-Vizcaino,Marta Martinez Aviles,Alberto Laddomada,2021-03-08

Index Veterinarius ,2001 **Virus Diseases in Laboratory and Captive Animals** Gholamreza Darai,2012-12-06 The influence of basic science particularly molecular biology in human and veterinary medicine revolutionized thinking in many aspects and changed fundamentally and creatively the classical strategy for research and prevention of infectious diseases Genetic engineering and related disciplines have progressed to a remarkable degree over the last decade and now form the keystone supporting medicine These are strong and efficient instruments for health and disease oriented research and their application gives the opportunity to receive more answers and not only more questions The prime objective of this book is to create new knowledge within the medical disciplines and inspire colleagues working in this field with the unity and unambiguous importance of this science and its technologies for identifying clarifying and planning new strategies for curing and preventing disease This book contains original studies on the molecular biology of animal viruses Some of the viruses discussed in this book are also hazardous to man In this light it can be considered as a contribution to modern education on the human infectious diseases From this point of view the book contains a chapter on Hantaan virus that causes no detectable disease in animals but hemorrhagic fever with renal syndrome has been attributed to infection of humans by this virus *Molecular Biology of Iridoviruses* Gholamreza Darai,2012-12-06 **Diagnostics and detection of african swine fever virus** Yongtao Li,Luis G. Gimenez-Lirola,Bin Li,Wentao Li,2023-05-11 *American Journal of Veterinary Research* ,1989 Vols for 1956 include selected papers from the proceedings of the American Veterinary Medical Association **Classical Swine Fever and Related Viral Infections** B. Liess,2012-12-06 The history of research on hog cholera HC classical swine fever CSF can be roughly divided into three phases which are characterized by the methods available at the time for demonstrati ng the causati ve agent Phase covered the period before the viral etiology of HC was discovered by de Schweinitz and Dorset 1904 Thereafter Phase II the detection of HC virus HCV was accomplished by laborious time consuming and costly pig inoculation experiments This explains the extensive search for methods not only for detection but also for accurate infectivity titration as well as for applicable serological techniques to solve urgent problems concerning the pathogenesis diagnosis epidemiology and prophylaxis of HC It was not before the late fifties that HC research entered Phase III when fluorescent antibody techniques offered not only the means for detection and titration of HCV in porcine cell cultures but also for more intensive research on hog cholera and its virus And yet there are a number of

questions to be answered e.g. on the genetic and antigenic relation of HCV to bovine viral diarrhoea BVD virus There are indications that Phase IV of HC research will bear the stamp of biotechnology In view of this development it appears appropriate to give an up dating and summarizing account of HC CSF including comparative aspects of infections caused by structurally related viruses The edition of the present volume would have been impossible without the cooperation of several known scientists who instantly agreed when asked for contribution

Understanding and combatting African Swine Fever
Laura Iacolina, Mary-Louise Penrith, Silvia Bellini, Erika Chenais, Ferran Jori, Maria Montoya, Karl Ståhl, Dolores Gaviera-Widén, 2023-08-14 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

National Library of Medicine Current Catalog National Library of Medicine (U.S.), **Agrindex**, 1995 **Emerging Infectious Diseases**, 2011 *Viral Vectors in Veterinary Vaccine Development* Thiru Vanniasinkam, Suresh K. Tikoo, Siba K. Samal, 2020-11-30 This highly accessible textbook introduces readers to the development of viral vectors and discusses their application in veterinary vaccinology It offers comprehensive information on the latest advances in this emerging research field together with a broad overview of the history of veterinary vaccines and viral vectors The book also addresses issues concerning funding translational research and ethics that will impact the future development manufacture and global use of viral vector based veterinary vaccines The book addresses the needs of graduate students and researchers in the fields of Veterinary Medicine Virology and Immunology **Viral Zoonoses and Food of Animal Origin** Oskar-Rüger

Kaaden, Claus-Peter Czerny, Werner Eichhorn, 2012-12-06 Since the central theme of this book is the transmission of disease agents through the food chain we will examine influenza viruses from this perspective Influenza A viruses are found in humans pigs horses sea mammals and also in wild aquatic and domestic birds 23 How are they spread Between mammals influenza is an airborne infection but between birds influenza can be either an airborne or waterborne infection Influenza viruses of aquatic birds periodically transmit to domestic birds sometimes with catastrophic effects this transmission can be either airborne or waterborne Less frequently avian influenza viruses transmit to mammals and three to four times in the

past century this transmission has initiated a pandemic of influenza in humans The method of spread of avian influenza viruses to mammals remains unresolved but could be either airborne or waterborne In this report we will consider recent examples of interspecies transmission of influenza A viruses and the possible prevention of emergence of the next human pandemic which is considered imminent The reservoirs of influenza A viruses The available evidence indicates that aquatic birds are the reservoirs of all 15 subtypes of influenza A viruses We will first consider the replication of influenza A in aquatic birds In wild ducks influenza viruses replicate preferentially in the cells lining the intestinal tract cause no disease signs and 10^{8-7} are excreted in high concentrations in the feces up to 10^{10}

Wildlife Disease and Health in Conservation David A. Jessup, Robin W. Radcliffe, 2023-09-15 This title explores the origins impacts and responses to diseases that are particularly damaging persistent and or are currently threatening wildlife conservation

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