

# **Avian Immunology**

Robert E. Schmidt, Jason D. Struthers, David N. Phalen

#### **Avian Immunology:**

Avian Immunology Bernd Kaspers, 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 Avian Immunology Bernd Kaspers, Karel A. Schat, 2011-04-28 The science underpinning avian immunology is crucial to understanding basic immunological principles and the exceptional features of the avian immune system as different strategies birds have adopted can provide important evolutionary insights This book provides the most complete picture of the avian immune system so far The world wide importance of poultry protein for the human diet the threat of an avian influenza pandemic and heavy reliance on vaccination to protect commercial flocks world wide demonstrates the need to review the important practical lessons in disease control presented here With contributions from 33 of the foremost international experts in the field this book provides the most up to date and comprehensive review of avian immunology of the field 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 assessing the importance of this subject for studying population dynamics and reviewing the methods and resources available for carrying out such research Handbook of Vertebrate Immunology Paul-Pierre Pastoret, 1998-06-02 This unique book provides a comprehensive and comparative guide

to the immune systems of major vertebrate species including domestic and wild animals of veterinary or medical interest fish and amphibia Data in this essential reference work has been compiled by world renowned editors and an international group of authors For each species the information is presented in a structured user friendly format allowing easy cross reference and comparison between the various species This book will be considered the definitive reference work on vertebrate immunology and will be essential for scientists and professionals working in Immunology Vaccinology or with Animal Models for students of Veterinary or Human Medicine Biology and researchers in Comparative Medicine and Physiology Each section devoted to a major animal group covers Lymphoid organs and their anatomical disposition Leukocytes and their markers Leukocyte traffic and associated molecules Cytokines T cell receptors Immunoglobulins MHC antigens Ontogeny of the immune system Passive transfer of immunity Neonatal immune responses Non specific immunity Complement system Mucosal immunity Immunodeficiencies Tumours of the immune system Autoimmunity Avian Immunology Bernd Kaspers, Karel A. Schat, 2018-11-13 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 Avian Immunology Basis and Practice Auli Toivanen, Paavo Toivanen, 1987 Diseases of Poultry Alv M. Fadly, J.R. Glisson, L.R. McDougald, L.K. Nolan, David E. Swayne, 2011-11-16 Now in its Twelfth Edition Diseases of Poultry continues its tradition of excellence as the definitive reference of poultry disease Following the same user friendly format the

book has been thoroughly updated to reflect the most current knowledge of avian pathology including new coverage of genetic resistance to disease Coverage is given to both common and uncommon diseases and chapters are organized by disease type including viral bacterial fungal parasitic diseases as well as others such as nutritional developmental metabolic noninfectious diseases and toxins Each disease section provides detailed coverage of history etiology pathobiology diagnosis and intervention strategies as well as the economic and public health significance of each disease With a host of international authors Diseases of Poultry is a must have resource for all veterinary pathologists practitioners agricultural managers and **Veterinary Vaccines and Diagnostics**, 1998-10-27 This industry leaders involved in poultry health and production volume of Advances in Veterinary Medicine derived in part from the First Veterinary Vaccines and Diagnostic Conferences deals with vaccines an especially active area of veterinary research and controversy **Infectious Disease Ecology of** Wild Birds Jennifer C. Owen, Dana M. Hawley, Kathryn P. Huyvaert, 2021 This accessible textbook focuses on the dynamics of infectious diseases for wild avian hosts across every level of ecological hierarchy Although the topics and principles discussed in this book relate to birds they have a far wider relevance and can also be applied to non avian wildlife host Animal Influenza David E. Swayne, 2016-12-19 Animal Influenza Second Edition is a comprehensive pathogen systems text on animal influenza Organized by species coverage includes avian swine equine and mammals with each section including data on influenza viruses the infection and disease they cause and strategies used in control Covers the full range of topics within avian swine equine and mammalian influenzas in one comprehensive and authoritative text Provides a summarization of peer reviewed and empirical data on influenza viruses the infection and diseases they cause Discusses strategies used in control of the disease Leading experts are drawn together to provide an international and multi disciplinary perspective Fuses latest developments in basic scientific research with practical guidance on management of the Marek's Disease K. Hirai, 2012-12-06 Marek's disease virus MDV is a herpesvirus which causes a disease lymphoproliferative disorder of the domestic chicken worldwide This serious economical problem caused by MDV was mostly solved by development of an effective vaccine against MDV The development of live vaccines against the disease is remarkable as it has led to the first example of a commercially available vaccine against cancer as well as against diseases caused by herpesviruses This volume gives an overview on many aspects of MDV research and summarizes recent advances in the field The topics include the history biology and molecular biology of MDV pathogenesis vaccinal immunity immune response genetic resistance and development of recombinant polyvalent vaccines It is hoped that this volume will make an important contribution towards the control of infectious diseases How Salmonella infection can inform on mechanisms of immune function and homeostasis Constantino López-Macías, Adam Cunningham, 2016-04-12 The use of model antigens such as haptens and ovalbumin has provided enormous insights into how immune responses develop particularly to vaccine antigens Furthermore these studies are overwhelmingly performed in animals housed in clean

facilities and are not known to have experienced overt clinical signs caused by infectious agents Therefore this is unlikely to reflect the impact more complex host pathogen interactions can have on the host nor the diversity in how immunity is regulated Humans develop immune responses in the context of the periodic exposure to multiple pathogens and vaccines over a life time These are likely to have a long lasting effect on who and what we are and how we respond to further antigen challenge Therefore studies on how infection influences immune homeostasis and how the development of responses to a pathogen reflects what is known on immune regulation will be informative on how we can translate findings from our standard models into treatments usable in humans One organism allows us to do just this Bacteria of the genus Salmonella are devastating human pathogens Nevertheless many aspects of the diseases they cause can be successfully modelled in murine systems so that the infection is either resolving or non resolving This has the advantage of allowing the long term impact of infection on immune function to be assessed We propose to welcome key workers to write about their research that examine the consequence of Salmonella infection on the host and the elements of the bacterium that contribute to this

Pathology of Pet and Aviary Birds Robert E. Schmidt, Jason D. Struthers, David N. Phalen, 2024-01-24 Pathology of Pet and Aviary Birds A complete reference for veterinary pathologists residents and students interested in avian diseases The revised third edition of Pathology of Pet and Aviary Birds delivers a comprehensive reference to gross and microscopic lesions found in birds as well as the implications of these diseases This third edition includes improved coverage of normal anatomy and of advanced diagnostic techniques including special stains immunohistochemistry in situ hybridization and molecular diagnostics The authors offer an extensive collection of more than 1200 high quality full color images New chapters cover the postmortem examination gross and microscopic anatomy advanced diagnostics and cytology Specific chapters address diseases of passerines Columbidae and raptors and other chapters are intuitively organized by body system The book also provides A thorough introduction to the preparation and interpretation of cytological samples Comprehensive tables of infectious diseases and published avian primers and IHC markers Practical discussion of diseases of the liver urinary system reproductive system respiratory system cardiovascular system nervous system alimentary system integument special senses and more High quality and annotated macroscopic and microscopic images that bolster the text and benefit the reader Pathology of Pet and Aviary Birds is an essential resource for veterinary pathologists and pathology residents and will also benefit avian practitioners and veterinary students with an interest in diseases of pet birds and birds in avicultural collections As many diseases in captive birds also manifest in wild birds the book will appeal to those interested in the diseases and pathology of wild birds Anatomy and Histology of the Domestic Chicken Wael Khamas, Josep Rutllant.2024-08-27 Comprehensive reference describing in depth anatomy and histology of the domestic chicken depicted through high quality macro and micro photographs Anatomy and Histology of the Domestic Chicken is a state of the art atlas of avian anatomy that provides a complete collection of both original gross anatomy and histology photographs and texts of

all body systems of the birds based on the domestic chicken to depict anatomic features Using cutting edge technology to create visualizations of anatomic structures this exhaustive reference includes both gross anatomical structures organs and their histological details next to each other This approach enables readers to understand the macro and micro pictures of each organ structure under study The text includes a total of more than 200 high resolution high quality color images and diagrams Written by two highly qualified professors with significant experience in the field Anatomy and Histology of the Domestic Chicken includes information on External features of the body including regions features ornaments shape feathers skin and the uropygial gland Musculoskeletal characteristics including cartilage and bone formation and classification as well as flight and ambulatory muscles Digestive system including the beak esophagus crop proventriculus ventriculus intestines and accessory glands Respiratory system including external nares nasal cavity trachea upper larynx syrinx lungs and air sacs Urinary system including kidneys and the ureter cloaca urodeum and genital system covering differences between males and females Endocrine system including pituitary pineal adrenal pancreas thyroid and parathyroid glands Nervous system with central and peripheral divisions and sense organs including eye and ear Lymphatic system with descriptions of the primary and secondary lymphatic organs Egg anatomy and development of the chick embryo Applied anatomical concepts important for clinical maneuvers and necropsy With comprehensive coverage of the subject and highly detailed photographs included throughout the text Anatomy and Histology of the Domestic Chicken is an indispensable resource for breeders veterinarians researchers avian biologists pathologists and students in animal sciences and veterinary fields **Sensing DNA in** Antiviral Innate Immunity Chunfu Zheng, Rongtuan Lin, Junji Xing, 2021-09-08 Phylogenesis of Immune Functions Gregory W. Warr, Nicholas Cohen, 2024-12-20 This volume discusses recent advances in research regarding the evolution of specific and nonspecific defense responses in a taxonomically diverse array of species Topics regarding invertebrates include the protective mechanisms cellular and molecular employed by insects the protective roles of lectins and the self nonself discrimination revealed by tissue incompatibility reactions With vertebrates the evolution of the immunoglobulin related superfamily of recognition molecules including immunoglobulins and the major histocompatibility complex molecules is examined over several chapters Other topics reviewed include the evolution of nonimmunoglobulin mediators of defense e q cytokines and eicosanoids lymphocyte subpopulations including effects of ambient temperature on function and the phylogenetic emergence of natural killer cells Phylogenesis of Immune Functions provides invaluable information for evolutionary biologists as well as all immunologists and other researchers interested in discovering how inhabitants in our increasingly threatened biosphere protect themselves against environmental pathogens and toxins Histophysiology of the Immune System Sigbjørn Fossum, Bent Rolstad, 2012-12-06 The 9th International Conference on Lymphatic Tissues and Germinal Centres in Immune Reactions was held in Oslo 9 14 August 1987 These conferences by the regular devotees just referred to as the germinal centre con ferences or GCC have been held regularly at roughly three year intervals since 1966

The credo of these conferences is in vivo veritas signifying that investigating components like molecules and cells only gives partial truth The components must ultimately be explored in their natural con text to see how they interact with other parts and are integrated to a whole To the biologist it is obvious that the world must be investigated at many different levels of organization At each level the patterns observed represent just some of many possible ways of putting together the elements of the lower levels These patterns are not predetermined but the results of evolution i e of a history in which stochastic processes play a major role The organic world can therefore not be torn apart and then reconstructed from basic principles alone This realization is often expressed as the whole being more than the sum of its parts **Host-Parasite Interactions** Gert Flik, Geert Wiegertjes, 2004-07-01 This volume summarizes current research into the physiology and molecular biology of host parasite interactions Brought together by leading international experts in the field the first section outlines fundamental processes followed by specific examples in the concluding section Covering a wide range of organisms Host Parasite Interactions is essential reading for researchers in the field Diseases of Poultry J.R. Glisson, L.R. McDougald, L.K. Nolan, D.L. Suarez, V.L. Nair, 2013-07-11 Diseases of Poultry is the most comprehensive reference for all aspects of poultry health and diseases including pathogenesis diagnostics epidemiology and control methods Published in partnership with the American Association of Avian Pathologists the Thirteenth Edition remains the international definitive reference adding newer diagnostic methods and a new chapter on the emerging importance of zoonotic infections for poultry pathogens Other updates include new high quality photographs additional discussion of conceptual operational biosecurity and disease control in organic production systems and a greater emphasis throughout on the differences in disease incidence and treatments for the United States and other areas around the globe Organized logically by disease type the book offers detailed coverage of the history etiology pathobiology diagnosis and intervention strategies as well as the economic and public health significance for an exhaustive list of common and uncommon diseases Diseases of Poultry 13th Edition is an essential purchase for poultry veterinarians veterinary diagnosticians poultry scientists students specializing in poultry health and government officials who Improving Genetic Disease Resistance in Farm Animals Akke Jitske deal with poultry health in regulatory climate Akkermans, W. Sybesma, 2012-12-06 This publication contains the proceedings of a seminar held in Brussels on November 8 9 1988 The title of the seminar was Reducing the costs of disease by improving resistance through genetics The seminar was held as an activity of the Community Programme for the Coordination of Agricultural Research 1984 1988 Costs of disease depend on losses caused by morbidity mortality and production decreases and on the costs of preventive measures including vaccination and medication Production losses often contribute a major portion to the total costs To reduce costs of disease preventive measures like vaccination preventive medication and hygienic procedures are applied Genetic resistance is an attractive preventive measure because of its consistent nature in the next generations because it precludes veterinary services and because there are no side effects Constraints are the long term investment relatively slow progress per

generation in combination with production traits and the considerable lack of knowledge about inheritance of resistance mechanisms in farm animals Marek's Disease Fred Davison, Venugopal Nair, 2004-06-30 Marek s disease is a form of cancer of poultry caused by an important herpesvirus MDV It continues to be a threat to poultry health and welfare and worldwide losses are estimated to be US 1 billion annually Marek s Disease provides a timely review of the problems of Marek s disease with descriptions of the complex viral life cycle how MDV targets different types of white blood cells and details of the virus structure its genes and proteins The multiplicity of factors contributing to susceptibility is explored in detail Vaccination the problems arising from current vaccination strategies and how these can be improved and made sustainable in future The lessons learned in the control of MD over the past 30 years and how we can use MD as a model for other animal and human diseases is discussed

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