

# HANDBOOK OF VERTEBRATE IMMUNOLOGY

Edited by

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ACADEMIC  
PRESS

# Handbook Of Vertebrate Immunology

**Mike Jess**



## **Handbook Of Vertebrate Immunology:**

*Handbook of Vertebrate Immunology* Paul-Pierre Pastoret, Philip Griebel, Hervé Bazin, André Govaerts, 1998-05-21 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

**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

*Current Trends in Monoclonal Antibody Development and Manufacturing* Steven J. Shire, Wayne Gombotz, Karoline Bechtold-Peters, James Andya, 2009-11-11 Monoclonal antibodies represent one of the fastest growing areas of new drug development within the pharmaceutical industry Several blockbuster products have been approved over the past several years including Rituxan Remicade Avastin Humira and Herceptin In addition over 300 new drugs are currently in clinical trials With both large established biotechnology companies and small start ups involved in the development of this important class of molecules monoclonal antibodies products will become increasingly prevalent over the next decade Recently the regulatory review of monoclonal antibodies has been moved from Center for Biologics and

Research to the Center for Drug Evaluation and Research CDER division of the US Food and Drug Administration It is anticipated that CDER will expect a certain minimal amount of data to be provided as more of these products move through the regulatory pipeline Current Trends in Monoclonal Antibody Development and Manufacturing will provide readers with an understanding of what is currently being done in the industry to develop manufacture and release monoclonal antibody products and what will be required for a successful regulatory submission

**Diseases of Poultry** Aly 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 industry leaders involved in poultry health and production

**Protein Therapeutics** Tristan Vaughan, Jane Osbourn, Bahija Jallal, 2017-07-28 In this practice oriented two volume handbook professionals from some of the largest biopharmaceutical companies and top academic researchers address the key concepts and challenges in the development of protein pharmaceuticals for medicinal chemists and drug developers of all trades Following an introduction tracing the rapid development of the protein therapeutics market over the last decade all currently used therapeutic protein scaffolds are surveyed from human and non human antibodies to antibody mimetics bispecific antibodies and antibody drug conjugates This ready reference then goes on to review other key aspects such as pharmacokinetics safety and immunogenicity manufacture formulation and delivery The handbook then takes a look at current key clinical applications for protein therapeutics from respiratory and inflammation to oncology and immune oncology infectious diseases and rescue therapy Finally several exciting prospects for the future of protein therapeutics are highlighted and discussed

**Fish Oil Replacement and Alternative Lipid Sources in Aquaculture Feeds** Giovanni M. Turchini, Wing-Keong Ng, Douglas Redford Tocher, 2010-07-19 Experts are predicting that demand for marine fish oil will soon outstrip supply creating extreme urgency within the global aquafeed industry to find viable alternatives Fish Oil Replacement and Alternative Lipid Sources in Aquaculture Feeds is the first comprehensive review of this multifaceted complex issue It also addresses the crucial quest

**Plasmids for Therapy and Vaccination** Martin Schleef, 2008-07-11 This is the first book specializing in plasmids and their biomedical use including all relevant aspects of production applications quality and regulations Readers will discover clinical applications for the wide range of preventive and therapeutic applications using plasmid DNA The book describes

modified vector systems based on plasmids as well as the potency of genomic research and vector design by informatics Using the example of fish vaccination the application of DNA vaccination in veterinary health care is reviewed followed by a detailed overview of plasmid production technology on an industrial scale Finally the book considers regulatory and quality assurance aspects of such new drugs plus their market potential *The Encyclopedia of Applied Animal Behaviour and Welfare* D. S. Mills, Jeremy N. Marchant-Forde, 2010 The practical focus of this authoritative comprehensive encyclopedia promotes the understanding and improvement of animals behaviour without compromising welfare It will be an essential resource for practising veterinarians researchers and students in zoology and ethology and for all those working with and interested in animals and their welfare Book Jacket

**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

**Amino Acids in Nutrition and Health** Guoyao Wu, 2021-03-26 Amino acids AAs are not only building blocks of protein but are also signalling molecules as well as regulators of gene expression and the protein phosphorylation cascade Additionally AAs are key precursors for syntheses of hormones and low molecular weight nitrogenous substances with each having enormous biological importance For example physiological concentrations of AA metabolites e.g. nitric oxide polyamines glutathione taurine thyroid hormones and serotonin are required for cell functions Growing evidence shows that humans and animals have dietary requirements for all proteinogenic AAs Mammals birds and fish also have species and age dependent needs for some AA related substances However elevated levels of other products e.g. ammonia homocysteine H<sub>2</sub>S and asymmetric dimethylarginine are pathogenic factors for neurological disorders oxidative stress and cardiovascular disease Thus optimal amounts of AAs and their ratios in diets and circulation are crucial for whole body homeostasis and health Adequate provision of one or a mixture of functional AAs or metabolites may be beneficial for ameliorating health problems at various stages of the life cycle e.g. fetal growth restriction neonatal morbidity and mortality weaning associated intestinal dysfunction and wasting syndrome obesity diabetes cardiovascular disease the metabolic syndrome and infertility Dietary supplementation of these nutrients can also optimize the efficiency of metabolic transformations to enhance muscle growth milk production and athletic performance while preventing excess fat deposition and reducing adiposity Therefore functional AAs hold great promise in improving the growth health and well being of individuals Chapter 7 is available open access under a Creative Commons Attribution 4.0

International License via link [springer.com](https://www.springer.com)      **Mucosal Immunology** Jiri Mestecky, Warren Strober, Michael W. Russell, Hilde Cheroutre, Bart N. Lambrecht, Brian L Kelsall, 2015-03-06 Mucosal Immunology now in its fourth edition is the only comprehensive reference covering the basic science and clinical manifestations of mucosal immunology. Most infectious agents enter the body through the various mucous membranes and many common infections take place in or on mucous membranes making this subject an area of singular importance in the field of immunology. This book contains new research data, exceptional illustrations, original theory, a new perspective, and excellent organization. It covers immune system topics such as inductive and effector tissues and cells and development and physiology of the mucosal barrier, diseases in the digestive system, respiratory tract, and genitourinary tract, and immunodeficiency. The most comprehensive text on mucosal immunology from internationally recognized experts in the field. Includes exceptional color illustrations, new research data, original theory, and information on all mucosal diseases. Contains nine new chapters and an expanded appendix.

**Reproduction in the Dog a Tropical Approach** Jovi R. Otite, 2015-10-30 Dog breeding has gained tremendous awareness over the last decade. In some countries it is a source of employment for many and a means of poverty alleviation. The canine industry is growing tremendously and dogs are transported across borders all year round. As a result of this fast growing industry, the treatment given to dogs keeps improving as man's awareness increases. However, majority of the literature available to dog breeders and enthusiasts are of temperate origin and as a result, information available to the tropical breeder is limited. Raising dogs in the tropics is different from the temperate regions. The outcome of inadequate information affects the management of our canine friends. This affects the reproductive potential of dogs raised in the tropics. The environment which we give our dogs reflects on the dog's ability to exhibit its full genetic makeup. Hence, dogs might appear sterile, obese, underweight, or malnourished depending on its environment. This book, **Reproduction in the Dog A Tropical Approach**, addresses the problems associated with dog breeding in the tropics and gives authentic information to the breeder, veterinarian, animal scientist, or dog enthusiast. It covers all the reader needs to know about breeding, reproduction, artificial insemination, semen collection, handling and storage, cloning, feed composition, housing, care of dogs, and lots more.

**Studies in Viral Ecology, Volume 2** Christon J. Hurst, 2011-08-23 This book explains the ecology of viruses by examining their interactive dynamics with their hosting species in this volume in animals including the types of transmission cycles that viruses have evolved encompassing principal and alternate hosts, vehicles, and vectoring species. Examining virology from an organismal biology approach and focusing on the concept that viral infections represent areas of overlap in the ecologies of the involved species. Viral Ecology is essential for students and professionals who either may be non-virologists or virologists whose previous familiarity has been very specialized.      **Spontaneous Pathology of the Laboratory Non-human Primate** Alys Bradley, Jennifer Chilton, Beth Mahler, 2023-06-20 Spontaneous Pathology of the Laboratory Non-human Primate serves as a go-to resource for all pathologists working on primates in safety assessment.

studies In addition it helps diagnostic veterinary pathologists rule out spontaneous non clinical disease pathologies when assigning cause of death to species in zoological collections Primate species included are rhesus cynomolgus macaques and marmosets Multi authored chapters are arranged by organ system thus providing the necessary information for continued research Pathologists often face a lack of suitable reference materials or historical data to determine if pathologic changes they are observing in monkeys are spontaneous or a consequence of other treatments or factors Contains color illustrations that depict the most common lesions to augment descriptions Covers descriptions that are compliant with the International Harmonization of Nomenclature and Diagnostic Criteria INHAND guidelines set forth by the Society of Toxicologic Pathology STP Provides pathologists with common terms that are compliant with the FDA s Standard for Exchange of Nonclinical Data SEND guidelines

*Bovine Tuberculosis* Mark Chambers, Stephen Gordon, Francisco Olea-Popelka, Paul Barrow, 2018-04-13 This book is contemporary topical and global in its approach and provides an essential comprehensive treatise on bovine tuberculosis and the bacterium that causes it *Mycobacterium bovis* Bovine tuberculosis remains a major cause of economic loss in cattle industries worldwide exacerbated in some countries by the presence of a substantial wildlife reservoir It is a major zoonosis causing human infection through consumption of unpasteurised milk or by close contact with infected animals Following a systematic approach expert international authors cover epidemiology and the global situation microbial virulence and pathogenesis host responses to the pathogen and diagnosis and control of the disease Aimed at researchers and practising veterinarians this book is essential for those needing comprehensive information on the pathogen and disease and offers a summary of key information learned from human tuberculosis research It will be useful to those studying the infection and for those responsible for controlling the disease

*Aquaculture Nutrition* Daniel L. Merrifield, Einar Ringo, 2014-10-20 Manipulation of the microbial gut content of farmed fishes and crustaceans can have a marked effect on their general health growth and quality Expertly covering the science behind the use of prebiotics and probiotics this landmark book explains how the correct manipulation of the gut flora of farmed fishes and crustaceans can have a positive effect on their health growth rates feed utilization and general wellbeing *Aquaculture Nutrition Gut Health Probiotics and Prebiotics* provides a comprehensive overview of the current knowledge of the gut microbiomes of fish and their importance with respect to host fish health and performance providing in depth cutting edge fundamental and applied information Written by many of the world s leading authorities and edited by Dr Daniel Merrifield and Professor Einar Ring this important book discusses in detail the common mechanisms for modulating microbiomes particularly at the gut level e g probiotics prebiotics and synbiotics The book is a key resource for an understanding of the historical development of these products their known mechanisms of action and their degree of efficacy as presently demonstrated in the literature The fundamental material provided on the gut microbiota itself and more broad aspects of microbe live feed interactions provide essential reading for researchers academics and students in the areas of aquaculture nutrition fish veterinary science microbiology

aquaculture fish biology and fisheries Those involved in the development and formulation of aquaculture feeds and those with broader roles within the aquaculture industry will find a huge wealth of commercially important information within the book s covers All libraries in universities and research establishments where biological sciences nutrition and aquaculture are studied and taught should have copies of this excellent book on their shelves **Modern Concepts of Immunology in**

**Veterinary Medicine** Thankam Mathew,2002 **The Toxicology of Fishes** Richard T. Di Giulio,David E.

Hinton,2008-02-25 When looking for a book on fish toxicology you might find one that discusses the biochemical and molecular aspects or one that focuses aquatic toxicology in general You can find resources that cover human and animal toxicology or ecotoxicology in general but no up to date comprehensive monograph devoted to the effects of chemical pollution on *The Biogeography of Host-Parasite Interactions* Serge Morand,Boris R. Krasnov,2010-07 This edited volume demonstrates how the latest developments in biogeography for example in phylogenetics macroecology and geographic information systems can be applied to studies in the evolutionary ecology of host parasite interactions in order to integrate spatial patterns with ecological theory *Fish Vaccination* Roar Gudding,Atle Lillehaug,Oystein Evensen,2014-05-05 Fish farming in seawater and in freshwater in cages tanks or ponds makes an ever increasing and significant contribution to the production of aquatic food in many regions of the world During the last few decades there has been significant progress and expansion in the aquaculture sector characterized by intensified production and the exploitation of many new species Aquaculture must be a sustainable bio production environmentally as well as economically Disease prevention in order to reduce losses and the use of antimicrobials is crucial in this perspective Vaccination has in a few years become the most important method for disease prevention in aquaculture and effective prophylaxis based on stimulation of the immune system of the fish is essential for further development of the industry This book provides general information about disease prevention in fish by vaccination as well as specific descriptions of the correct use of vaccines against the most important bacterial and viral infectious diseases of aquatic animals The book is written by some of the world s leading experts in the subject drawn from many countries where aquaculture is a significant and expanding part of the economy Fish Vaccination is an encyclopedia of fish vaccinology for every present and future aquaculturist Professionals in the aquaculture sector including fish veterinarians and fish biologists within the industry in scientific institutions and regulatory authorities will all find a huge wealth of commercially important knowledge within this book Libraries in all universities where aquaculture biological and veterinary sciences are studied and taught should have copies of this important book on their shelves



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