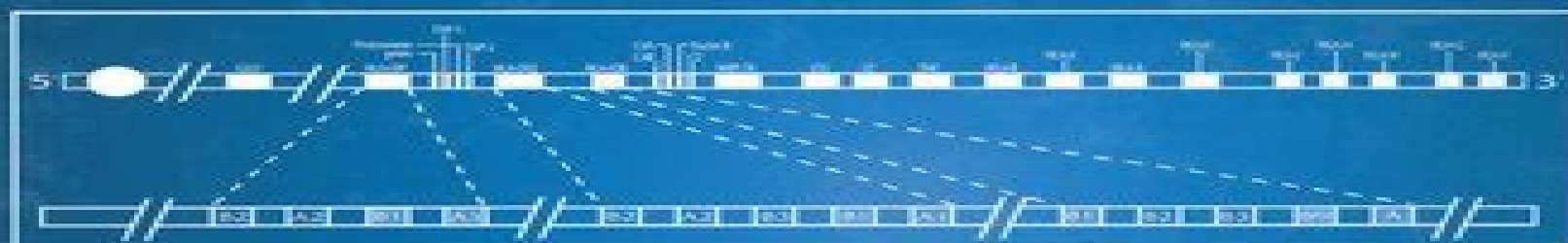


The Major Histocompatibility Complex Region of Domestic Animal Species



Edited by
Lawrence B. Schook
Susan J. Lamont



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Lawrence B. Schook, Susan J. Lamont



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The Major Histocompatibility Complex Region of Domestic Animal Species Lawrence B. Schook, Susan J.

Lamont, 1996-08-28 The major histocompatibility complex Mhc is one of the few identified gene systems in domestic animals that is associated with quantitative traits such as disease resistance immune response growth and reproduction As knowledge of this important system increases we move closer toward the reality of genetic enhancement of animal welfare and production efficiency This book represents the current state of knowledge on the Mhc of agriculturally important animals and explores the latest advances in technology For the first time the unique findings of recent Mhc research are presented in a single source The Major Histocompatibility Complex Region of Domestic Animal Species begins with a discussion of the evolution of Mhc The chapters are then organized with respect to specific species with a chapter devoted to each The Mhc of mice and humans are used as a common reference for comparisons between diverse species The text concludes with a look at future strategies and directions in Mhc research Comparative immunologists and geneticists veterinarians animal breeders researchers and university and postgraduate students will all benefit from this detailed look at the evolution structure and organization of Mhc

Laboratory Animal Medicine Lynn C. Anderson, Glen Otto, Kathleen R. Pritchett-Corning, Mark T.

Whary, 2015-07-04 Laboratory Animal Medicine Third Edition is a fully revised publication from the American College of Laboratory Medicine's acclaimed blue book series It presents an up to date volume that offers the most thorough coverage of the biology health and care of laboratory animals The book is organized by species with new inclusions of chinchillas birds and program and employee management and is written and edited by known experts in the fields Users will find gold standard guidance on the study of laboratory animal science as well as valuable information that applies across all of the biological and biomedical sciences that work with animals Organized by species for in depth understanding of biology health and best care of animals Features the inclusion of chinchillas quail and zebra finches as animal models Offers guidance on program and employee management Covers regulations policies and laws for laboratory animal management worldwide

Breeding for Disease Resistance in Farm Animals Stephen C. Bishop, Roger F. E. Axford, Frank W. Nicholas, John B.

Owen, 2010 This new edition provides an updated review of the principles of animal breeding for advanced health and disease resistance Authored by experts it uses examples covering many diseases of importance to livestock production across all major livestock species Topics include techniques and approaches viruses Transmissible Spongiform Encephalopathies TSEs bacteria parasites vectors and broader health issues seen in production systems including metabolic diseases

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 **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 g 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

Genomic management of animal genetic diversity J.K. Oldenbroek, 2023-08-07 Recently developed genomic tools like SNP genotyping and whole genome sequencing and their analysis offer great opportunities for the conservation and utilisation of animal genetic diversity both among and within breeds These genomic tools can be used to detect potentially valuable rare alleles and haplotypes They are important parts of the genetic diversity we need to conserve now for possible utilisation in the future This book describes the use of genomic technology to define breeds to measure diversity and to assess important features in the history of breeds affecting the present genetic diversity The management of genetic diversity with genomic tools is outlined both in vivo small populations of rare breeds or large populations with small effective population sizes and in vitro genebanks Special attention is given to the genomic management of populations of animals with high incidences of genetic defects This book is intended for MSc and PhD students scientists working with small populations in animal breeding and in conservation programmes for rare breeds Immunology and Immunopathology of Domestic Animals Laurel J. Gershwin, Steven Krakowka, Richard G. Olsen, 1995 Animal Biotechnology National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Board on Agriculture and Natural Resources, Committee on Agricultural Biotechnology, Health, and the Environment, Committee on Defining Science-Based Concerns Associated with Products of

Animal Biotechnology,2002-11-29 Genetic based animal biotechnology has produced new food and pharmaceutical products and promises many more advances to benefit humankind These exciting prospects are accompanied by considerable unease however about matters such as safety and ethics This book identifies science based and policy related concerns about animal biotechnology key issues that must be resolved before the new breakthroughs can reach their potential The book includes a short history of the field and provides understandable definitions of terms like cloning Looking at technologies on the near horizon the authors discuss what we know and what we fear about their effects the inadvertent release of dangerous microorganisms the safety of products derived from biotechnology the impact of genetically engineered animals on their environment In addition to these concerns the book explores animal welfare concerns and our societal and institutional capacity to manage and regulate the technology and its products This accessible volume will be important to everyone interested in the implications of the use of animal biotechnology

Improving Genetic Disease Resistance in Farm Animals Akke Jitske 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

Animal Parasite Control Utilizing Biotechnology Weng K. Yong,2024-12-20 This volume emphasizes the application of modern biotechnological approaches to the study and control of animal parasites The book begins by discussing molecular concepts and principles in general before moving on to cover specific applications for endoparasites ectoparasites and finally the hosts themselves Animal Parasite Control Utilizing Biotechnology will be an instrumental reference in promoting a better understanding of the host parasite relationship and suggesting viable means of controlling economically important parasite infections of animals The book will be invaluable to zoologists parasitologists microbiologists biochemists geneticists immunologists physiologists molecular biologists veterinarian and medical scientists and advanced students interested in the topic

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