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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

Avian Immunology-Karel Antoni Schat 2014

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Avian Immunology-T. Fred Davison 2008 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

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Avian Immunology-A. Benedict 2012-12-06 The ontogeny of lymphoid cells seems the most appropriate place to start. The early events in T and B cell ontogeny are still confusing. There seems to be no agreement on the data and on the semantics of the question of progenitor vs. stem cells. Nevertheless, we are beginning to understand more about progenitor cells which are committed to particular cell lines, and about stem cells in the sense of having almost unlimited capability of giving rise to undifferentiated progeny. An important future development will be to determine the nature of the substances that attract stem cells and which are produced by specialized thymus epithelium, and perhaps by the bursa. The way stem cells recognize these signals is an important question to answer. Not predictable from mammalian

models has been the observation that there is a lack of cells called into the bursa even before the signal for entry of stem cells has been shut off. A likely model suggested that after a certain point in development there were no longer any cells capable of migrating into the bursa and becoming B cells. A fascinating possibility is the suggestion that a cell comes into the bursa, is not committed, then can still wander into the thymus. This cell does not appear to have B cell characteristics; that is, immunoglobulin is not expressed on its surface.

Avian Immunology-W. T. Weber 1987

Avian Immunology in Progress-Françoise Coudert 1993

Recent Advances in Avian Immunology Research-Avian Immunology Research Group. Meeting 1989 Explores the latest developments in the application of biotechnology to vaccination against poultry disease. Presents basic avian immunology experimental models, applications, and issues currently under investigation. Topics covered include gene cloning; use of monoclonal antibodies; T-cell cloning; and the development of anti-idiotopic antibodies as alternative surrogate antigen.

Advances in Avian Immunology Research-T. Fred Davison 1995

Avian Immunology-P. C. Powell 1982

Avian Immunology-George J. Brewer 1987

Handbook of Vertebrate Immunology-Paul-Pierre Pastoret 1998 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 Cellular Immunology-Jagdev M. Sharma 1990-11-21 Knowledge regarding avian cellular immunity has expanded rapidly within the last few years and new information continues to accumulate. It is now a well-established fact that cell-mediated immunity plays a major role in the defense against neoplastic and non-neoplastic diseases in chickens. The principle objective of Avian Cellular Immunology is to compile the latest information available on various aspects of avian cellular immunity. The book contains chapters written by leading experts in the field and covers topics including cell surface markers, T-cell immunity, natural immune functions, the role of macrophages in cellular immune functions, cellular immune suppression and tolerance, cellular immune systems in avian species other than chickens, the role of cellular immunity in neoplastic and non-neoplastic viral diseases, cell-mediated immune mechanisms in bacterial and parasitic infections, and autoimmune disorders.

AIRG Conference-Avian Immunology Research Group. Meeting 2008

Avian Immunology-International Conference on Avian Immunology, University of Hawaii, 1977 1977

Avian Biochemistry and Molecular Biology-Lewis Stevens 2004-11-11 Up-to-date reference book on all aspects of bird biochemistry and

molecular biology.

Recent Advances in Avian Immunology Research-Balbir S. Bhogal 1989-06-15 Explores the latest developments in the application of biotechnology to vaccination against poultry disease. Presents basic avian immunology experimental models, applications, and issues currently under investigation. Topics covered include gene cloning; use of monoclonal antibodies; T-cell cloning; and the development of anti-idiotopic antibodies as alternative surrogate antigen.

Avian Immunology-M. E. Rose 1981

Current Therapy in Avian Medicine and Surgery-Brian Speer 2015-12-04 A current and cutting-edge reference, Current Therapy in Avian Medicine and Surgery takes the popular Current Therapy approach in providing succinct and clear information pertinent to the medical care of avian species. Most chapters include an up-to-date delivery of the current state of knowledge on their subject material, and provide practical approaches and thought processes applicable to diagnosis and therapy where appropriate. Information is always easy to find, with topics including the latest advances in internal medicine; behavioral medicine; anesthesia, analgesia, and surgery. Sections dedicated to welfare, conservation, and practice risk management explore important, but less commonly discussed aspects of avian practice; and the pattern recognition portion of the text offers readers a view of what companion bird conditions are likely to be seen in practice in different parts of the world. Written by a team of highly regarded contributors from around the world, this text helps readers, regardless of location and current knowledge, develop and augment skills in the medical and surgical care of avian species. The Current Therapy format provides current, up-to-date, succinct and clear information pertinent to the medical and surgical care of avian species. Coverage of clinically significant topics includes current veterinary scientific literature and hot topics relating to today's avian medicine and surgery. Coverage of a wide variety of bird species includes psittacines, pigeons, raptors, ratites, waterfowl, gallinaceous birds, and less common species. More than 800 full-color images show avian

disease, management strategies and thought processes, and aid in formulating guidelines to care. World-renowned, expert contributors provide cutting-edge information, offering authoritative, accurate, and sometimes controversial opinions in many areas of study. Summary tables simplify the lookup of key facts and treatment guidelines. References in each chapter facilitate further reading and research on specific topics.

Avian Immunology. 2nd International Conference ... , Philadelphia, Pennsylvania, July 13-15, 1986-W. T. Weber 1987

Immunology and Developmental Biology of the Chicken-Olli Vainio 2012-12-06 Books on both chicken immunology and developmental biology are rare. This one, however, summarizes all aspects of both areas and therefore represents a valuable compendium for experienced researchers as well as for all newcomers to the field. Following a lengthy discussion of the origin of hemopoietic cells, regulatory elements for the differentiation of these cells and B and T cell lymphopoiesis, the book goes on to describe the generation of transgenic chickens as well as an additional basic feature in embryogenesis: the positioning of organ anlage, e.g. the limb bud. To round off, a valuable compilation of monoclonal antibodies further enhances the practical usefulness of this important book.

Avian Immunology-W. T. Weber 1987

Avian Immunology-M. E. Rose 1981

Progress in Clinical and Biological Research-George J. Brewer 1975

Poultry Science- 1995 Vol. 5 includes a separately paged special issue, dated June 1926.

Proceedings- 1983

Immunology-R. J. Turner 1994-08-08 This text is aimed at those students and research workers

who have some knowledge of immunology, but are curious about the advances, opportunities and challenges in comparative work. It answers questions about the similarities between different orders, classes, phyla and kingdoms.

The Journal of Immunology- 2007

Pathogenesis of Acute Avian Malaria-Jiya Lal Soni 1973

Encyclopedia of Immunology-Ivan Maurice Roitt 1992 V.1. A-Eps. v.2. Ery-Mate. v.3. Matu-Z.

Avian Immune Responses to Feed Restriction and West Nile Virus-Carol Anne Fassbinder-Orth 2008

Immunology Methods Manual: Immunodiagnosis of human B cell malignancies-Ivan Lefkovits 1997

Institute for Animal Health-Institute for Animal Health (Great Britain) 2003

Immunological and Developmental Studies with Quail-chicken Hybrids-Caryl Lynn Greenfield 1988

The Immune System-Agustin G. Zapata 1990-12-31 This is the first book to cover aspects of cell biology, histology and current experimental immunology in the broadest context and, at the same time, delve into these phenomena in ectothermic vertebrates, birds, and a few unique mammals such as monotremes and marsupials. The authors explore the evolution of the immune system and illuminate its structure and function. They also note new findings that suggest immunity in ectotherms is strongly influenced by ambient factors.

Scientific Program & Proceedings-Avian Immunology Research Group Meeting 2010

Avian Diseases- 1979

Animal Models of Comparative and Developmental Aspects of Immunity and Disease-M. Eric Gershwin 1978

The Role of Lactobacillus Reuteri in Controlling Avian Growth Depression (AGD)-Holly Joyce Dunham 1996

XI Avian Immunology Research Group Meeting-Diamond Congress (Budapest). 2010

Studia biophysica- 1989