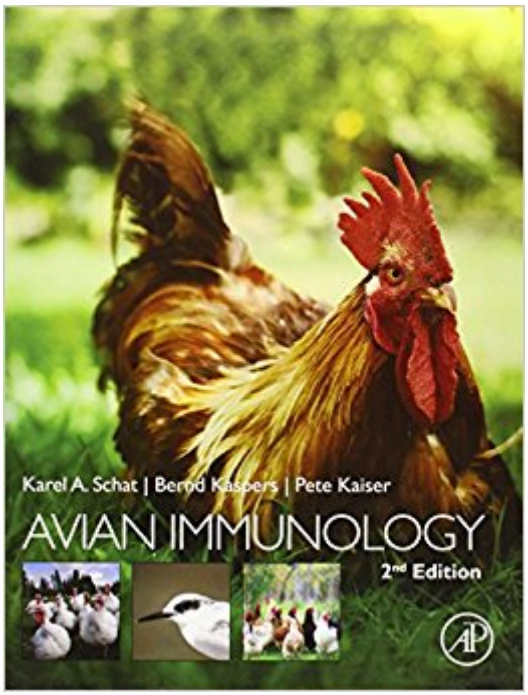
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Avian Immunology, Second Edition



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Synopsis

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 wellÃ Â 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 farContains 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 receptorsContains 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

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Customer Reviews

"This book provides foundational and more advanced knowledge on avian immunologyÃ¢â ¬Â| Appendices provide resources for researchers including genetic stocks and monoclonal antibodies and cytokines. This book is a very useful tool for anyone interested in conducting research on the topic or as an advanced introduction to avian immunology." --BTO.org, January-February 2014 "This book is an introduction to the field, beginning with an overview of avian immune system, its unique features and its importance to business and research. Further chapters focus on specific details of avian immune systemÃ¢â ¬Â|Extensive lists of genetic stocks for immunological research and further study resources make this book both a foundational reference and a stepping stone towards more advanced research subjects." --ProtoView.com, January 2014 "This book would serve as reference that all can resort to for old and new information. This field lacks such a resource and I personally have used the first version extensively whether as refresher or to acquire new knowledge. Much of the classical discoveries in this area are not readily available to the public and this book will afford access to such information. The appendices are especially helpful as many scientists are not aware of the resources available." --Dr. Rami A. Dalloul, Associate Professor, Dept. of Animal & Poultry Sciences, Virginia Tech, USA

The science underpinning avian immunology is crucial to understanding basic immunological principles. The exceptional features of the avian immune system and 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.

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