



Avian Immunology, Second Edition

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Avian Immunology, Second Edition From Academic Press

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



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Editorial Review

Review

"This book provides foundational and more advanced knowledge on avian immunology... 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 system... 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**

From the Back Cover

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.

About the Author

Professor Emeritus K.A. (Ton) Schat received his veterinary degree from the University of Utrecht, The Netherlands in 1970 and his PhD degree in Virology from Cornell University, Ithaca, NY in 1978. He joined the faculty at the College of Veterinary Medicine, Cornell University in 1978, where he remained until his retirement in 2011. His research focused on the immunology and pathogenesis of viral diseases of poultry, especially Marek's disease and chicken infectious anemia. He has published over 165 papers in peer-reviewed journals and more than 30 book chapters. His contributions to avian disease research were recognized with the Upjohn Achievement Award of the AAAP in 1986, the Dr. Bart Rispens Research Award of the WVPA in 1987, the Pfizer Award for Excellence in Poultry Research of the AVMA in 1999, and the Merck Award for Achievement in Poultry Science of the PSA in 2005. In 2010 he was recognized by his peers with a special award for outstanding research in the field of Marek's disease. He is a founding member of the Hall of Honour of the World Veterinary Poultry Association.

Bernd Kaspers graduated as a veterinarian in 1986 at the University of Munich and completed his doctoral thesis (Doctor of Veterinary Medicine) in 1989. He subsequently worked as a post-doc at the United States Department of Agriculture, Agricultural Research Service, Livestock and Poultry Sciences Institute, Beltsville, MD, USA and returned to the University of Munich in 1992 where he became a full Professor for Animal Physiology in 1997.

Since his dissertation he has focused on avian immuno-physiology investigating B-lymphocyte biology, cytokines and the mucosal immune system in chickens. This work included studies on a range of infection models such as avian coccidiosis, avian influenza, Marek's Disease and Salmonella infections. His research is documented in more than 85 publications in peer-reviewed journals, several reviews and book chapters.

His work is funded by grants from the German Research Foundation, the Federal Ministry of Education and Research, the European Union and through several co-operations with the poultry and vaccine industry.

Bernd Kaspers is member of the German Society for Immunology and as such has been speaker of the Veterinary Immunology Study Group of the society for the last 6 years. In 2004 he hosted together with Thomas Goebel the 8th Avian Immunology Research Group Meeting in Munich with more than 120 participants.

Professor Pete Kaiser is Head of the Division of Infection and Immunity and Chair in Animal Infectious Diseases at The Roslin Institute & R(D)SVS, University of Edinburgh. He is also Head of the newly established National Avian Research Facility at Roslin.

He has published over 130 primary research papers and holds 3 patents, primarily in avian immunology and genetics, and is currently supported by grants from the BBSRC, EU, industry and charities. He has won competitive funding totalling over £5M since joining The Roslin Institute in 2010. He holds visiting appointments at the Universities of Queensland and Liverpool and is on the Editorial Boards of 6 journals. He is a trustee of the Houghton Trust and serves on several BBSRC working and advisory groups. In 2009 he was awarded the Houghton Lecture at the World Veterinary Poultry Association meeting in Morocco. Industrial collaborators include Zoetis Animal Health, CEVA Sante Animale, HyLine, Cobb-Vantress and Aviagen.

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