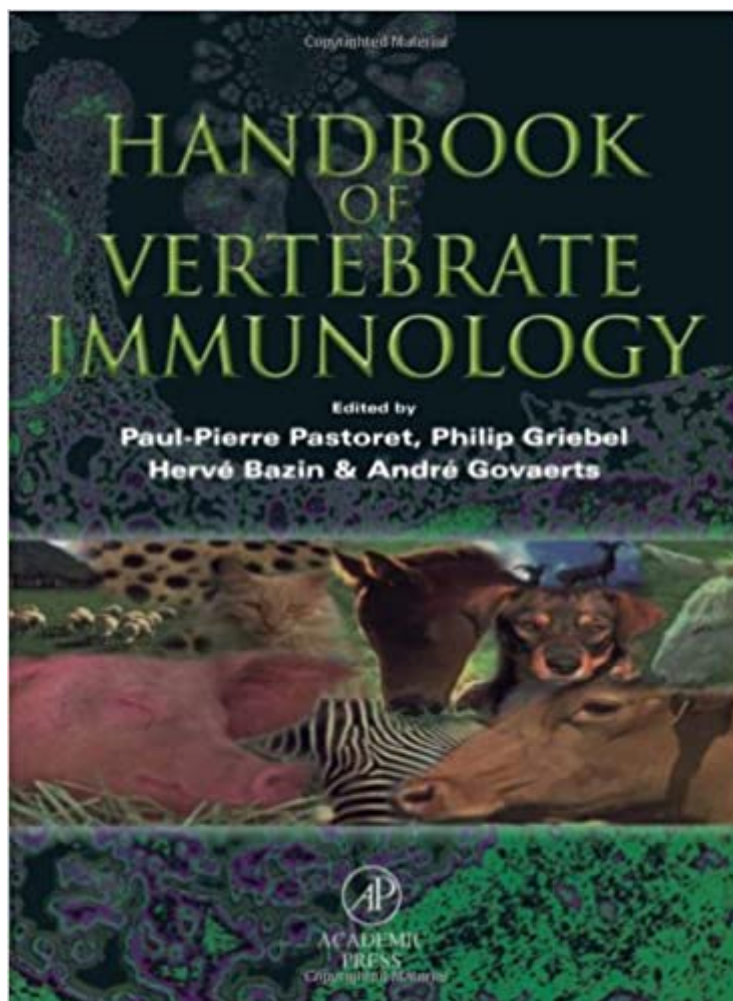


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# Handbook Of Vertebrate Immunology



## Synopsis

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

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"This comprehensive publication compiled by an international team of renowned immunologists is a successful attempt to present an updated view on immune systems of most important species of wild, domestic, and laboratory animals. An enormous amount of basic and practical information contained in the treatise is indispensable for scientists working in different areas of immunology.

The volume is lavishly illustrated and a lot of useful information is presented in concise, tabular form. The Handbook of Vertebrate Immunology is a very timely publication and it is highly recommended to all immunologists." --IMMUNOLOGICAL INVESTIGATIONS

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. Using a tabular format where possible and providing extensive and easy access to the literature, 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 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.

This book is the first comprehensive source for comparative immunology in such a wide range of species. As such it will be an invaluable addition to the library of any researchers working outside of the usual primate-mouse paradigm. It will also prove useful to veterinary scientists working in vaccinology or other immunology related fields and as a graduate level reference text. Each chapter provides information on a given animal or group of animals and is edited by at least one expert on that particular animal or group of animals. The chapter sections, covering specific immunological areas, are likewise edited by at least one expert in the field. Chapter sections are kept essentially the same in all chapters to make for easier comparisons between species. Easy comparisons are also facilitated by the great amounts of information presented in tabular form. Extensive references direct the reader to important papers and authors in the various fields thereby allowing the reader to pursue more specific, in depth knowledge. One weakness to be perceived in this excellent book may be the need for more diagrammatic representations of the genes encoding antibodies, TCR and MHC thus making for quick, at-a-glance, genetic comparisons. Readers will hopefully suggest

other improvements and expansions so that future editions will contain still more information, and perhaps more species, as knowledge increases. Due to the vast array of international expertise brought to bear in the preparation of this book it is a top quality production, able to cover even such a broad range of vertebrate species very well. All in all the importance and utility of this book can hardly be overstated. As its use and familiarity grows, the editors may expect many thanks from colleagues around the world for this timely work.

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