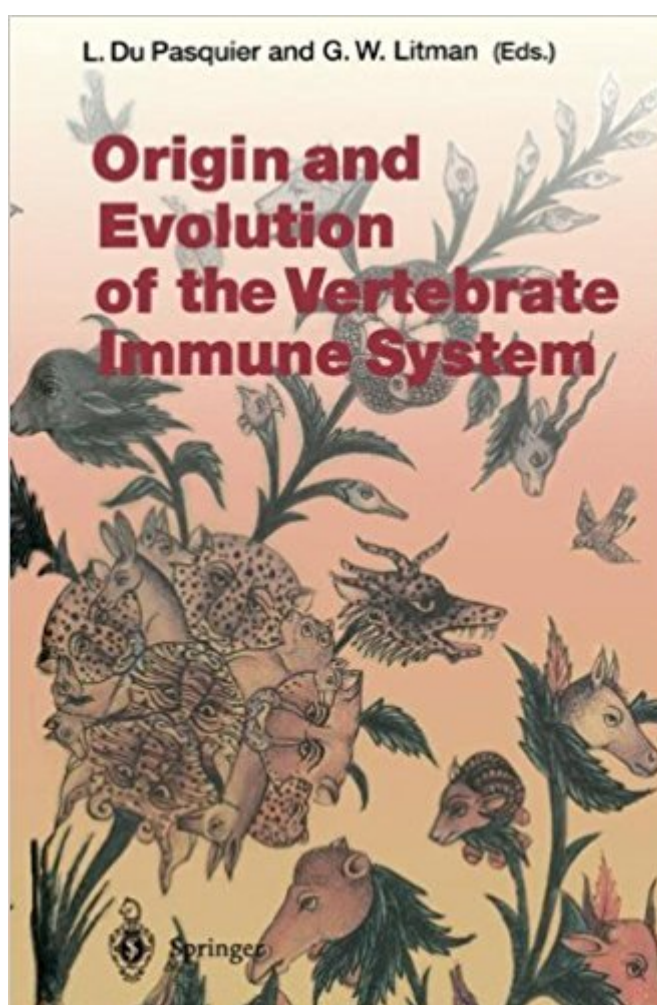


The book was found

# Origin And Evolution Of The Vertebrate Immune System (Current Topics In Microbiology And Immunology)



## Synopsis

The comparative approach to immunology can be traced to the era of Pasteur and Metchnikov in which observations regarding foreign recognition in invertebrates was a factor in the development of the principal concepts that created the foundation of what now is the broad field of immunology. With each major experimental and conceptual breakthrough, the classical, albeit essential, question has been asked "are the immune systems of phylogenetically primitive vertebrates and invertebrates similar to that of mammals?" Somewhat surprisingly for the jawed vertebrates, the general answer has been a qualified form of "yes", whereas for agnathans and invertebrate phyla it has been "no" so far. The apparent abruptness in the appearance of the immune system of vertebrates is linked to the introduction of the somatic generation of the diversity of its antigen specific receptors. Therefore the questions regarding the origin and evolution of the specific immune system revolve around this phenomenon. With respect to the origin of the system (aside from the origin of the rearranging machinery itself, the study of which is still in its infancy) one can ask questions about the cellular and molecular contexts in which the mechanism was introduced.

## Book Information

File Size: 6600 KB

Print Length: 326 pages

Publisher: Springer; 1 edition (December 6, 2012)

Publication Date: December 6, 2012

Sold by: Digital Services LLC

Language: English

ASIN: B000SBKCEK

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #4,216,109 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #33

in Books > Medical Books > Veterinary Medicine > Genetics #86 in Books > Medical Books >

Veterinary Medicine > Immunology #497 in Books > Medical Books > Veterinary Medicine >

Anatomy & Physiology

[Download to continue reading...](#)

Origin and Evolution of the Vertebrate Immune System (Current Topics in Microbiology and Immunology) Basic Immunology Updated Edition: Functions and Disorders of the Immune System With STUDENT CONSULT Online Access, 3e (Basic Immunology: Functions and Disorders of the Immune System) Wildlife and Emerging Zoonotic Diseases: The Biology, Circumstances and Consequences of Cross-Species Transmission (Current Topics in Microbiology and Immunology) Histophilus somni: Biology, Molecular Basis of Pathogenesis, and Host Immunity (Current Topics in Microbiology and Immunology) Lesser Known Large dsDNA Viruses (Current Topics in Microbiology and Immunology) Anti-Inflammatory Diet: A complete guide to the Anti-Inflammatory Diet, How to reduce Inflammation?: What you should eat & avoid to Reset your Immune System ... Immune System, Reduce Inflammation Book 1) Phylogenetic Perspectives on the Vertebrate Immune System (Advances in Experimental Medicine and Biology) The First Humans: Origin and Early Evolution of the Genus Homo (Vertebrate Paleobiology and Paleoanthropology) I'm Immune! How Your Immune System Keeps You Safe - Health Books for Kids - Children's Disease Books The Cytokines of the Immune System: The Role of Cytokines in Disease Related to Immune Response Moving Frontiers in Veterinary Immunology (Progress in Veterinary Microbiology and Immunology, Vol. 4) Basic Immunology: Functions and Disorders of the Immune System, 5e Basic Immunology E-Book: Functions and Disorders of the Immune System Basic Immunology: Functions and Disorders of the Immune System, 4e Skin Immune System: Cutaneous Immunology and Clinical Immunodermatology, Third Edition Handbook of Vertebrate Immunology Ophthalmic Immunology and Immune-Mediated Disease, An Issue of Veterinary Clinics: Small Animal Practice, 1e (The Clinics: Veterinary Medicine) Paleontology and Geology of Laetoli: Human Evolution in Context: Volume 2: Fossil Hominins and the Associated Fauna (Vertebrate Paleobiology and Paleoanthropology) Paleontology and Geology of Laetoli: Human Evolution in Context: Volume 1: Geology, Geochronology, Paleoecology and Paleoenvironment (Vertebrate Paleobiology and Paleoanthropology) Evolution and Vertebrate Immunity: The Antigen-Receptor and Mhc Gene Families (University of Texas Medical Branch Series in Biomedical Science)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)