

The Immune System

Langman



# The Immune System

*Evolutionary principles guide our understanding of this complex biological defense system.*

Rodney E. Langman

# The Immune System Evolutionary Principles Guide Our Understanding Of This Complex Biological Defense System

**Rodney E. Langman**



## **The Immune System Evolutionary Principles Guide Our Understanding Of This Complex Biological Defense System:**

**The immune system** Rodney Langman, 2014-07-23 9780124365858 The Immune System Evolutionary Principle Guide our Understanding of this Complex Biological Defense System provides the conceptual framework of immunology and the evolutionary events that have shaped the understanding of the immune system This book contains 10 chapters and begins with a brief discussion on the evolutionary aspects of immunology considering the Darwinian principles of evolution This topic is followed by a presentation of the selective pressures that are likely to have molded the immune system as well as the laws of the immune system and their corollaries concerning host defense mechanism The subsequent chapters are devoted to cellular components of the immune system including the B and T cells immunoglobulins interleukins major histocompatibility complex and lymphoid organs The structural information and the evolutionary events in these immune system components are provided A chapter focuses on the evolutionary successful components of the inflammatory system The concluding chapter deals with the conflicting conventional wisdoms on functional immune system This book will prove useful to immunologists and research workers in immunology and related fields **The Immune System** Rodney E.

Langman, 1989-01-01 5E 1991 Concer **Social and Cultural Lives of Immune Systems** James M. Wilce Jr., 2003-09-02 Social and Cultural Lives of Immune Systems introduces a provocative new hypothesis in medico social theory the theory that immunity and disease are in part socially constituted It argues that immune systems function not just as biological entities but also as symbolic concepts charged with political significance Bridging elements of psychology sociology body theory immunology and medical anthropology twelve papers from leading scholars explain some of the health hazards of emotional and social pressure whilst analysing the semiotic and social responses to the imagery of immunity *Immunity* Hidetaka Yakura, 2024-08-05 This book explores the essence of immunity After an initial review of hypotheses models and theories proposed to explain immune phenomena in humans and mice it summarizes the results from synchronic organism level analyses and diachronic analyses tracing phylogeny These results suggest that immunity is coextensive with life and is equipped with functions similar to the nervous system Philosophical reflection with reference to Spinoza and Canguilhem suggests immunity is part of the essence of life and the essence of immunity embraces mental elements with normativity Approaching the essence of any phenomenon in this way is called metaphysicalization of science This book demonstrates the potential of this approach and contributes to a richer understanding of nature Key Features Reviews the history of immunological theories Discusses and integrates science and philosophy Provides a biological framework for cognition and self vs nonself Inspired by Auguste Comte s The Law of Three Stages **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **The Thymus in Immunotoxicology** Marion D.

Kendall, Mary A. Ritter, 1991 Thymus Update 4 details the sensitivity of the thymus to xenobiotics and their effects on

thymocyte development and maturation It highlights the importance of immunological testing of all environmental toxins such as dioxin tin compounds and caramel additives and drugs such as immunosuppressives antiviral agents and antihypertensive agents The effects of trauma are also considered Part two covers a subject of topical importance an update on procedures for vascular transplantation of the thymus      **The Stem Cell Dilemma** Leo Furcht,2011-10 An up to date guide on the stem cell controversy and the discovery hope and fear that surrounds      Theoretical and Experimental Insights into Immunology Alan S. Perelson, Gerard Weisbuch,2013-06-29 Immunology is largely a science of observation and experimentation and these approaches have lead to great increases in our knowledge of the genes molecules and cells of the immune system This book is an up to date discussion of the current state of modelling and theoretical work in immunology of the impact of theory on experiment and of future directions for theoretical research Among the topics discussed are the function and evolution of the immune system computer modelling of the humoral immune response and of idiotypic networks and idiotypic mimicry T cell memory cryptic peptides new views and models of AIDS and autoimmunity and the shaping of the immune repertoire by early presented antigens and self immunoglobulin      *The Age of Immunology* A. David Napier,2010-12-15 In this fascinating and inventive work A David Napier argues that the central assumption of immunology that we survive through the recognition and elimination of non self has become a defining concept of the modern age Tracing this immunological understanding of self and other through an incredibly diverse array of venues from medical research to legal and military strategies and the electronic revolution Napier shows how this defensive way of looking at the world not only destroys diversity but also eliminates the possibility of truly engaging difference thereby impoverishing our culture and foreclosing tremendous opportunities for personal growth To illustrate these destructive consequences Napier likens the current craze for embracing diversity and the use of politically correct speech to a cultural potluck to which we each bring different dishes but at which no one can eat unless they abide by the same rules Similarly loaning money to developing nations serves as a tool both to make the peoples in those nations more like us and to maintain them in the nonthreatening status of distant dependents To break free of the resulting downward spiral of homogenization and self focus Napier suggests that we instead adopt a new defining concept based on embryology in which development and self growth take place through a process of incorporation and transformation In this effort he suggests that we have much to learn from non Western peoples such as the Balinese whose ritual practices require them to take on the considerable risk of injecting into their selves the potential dangers of otherness and in so doing ultimately strengthen themselves as well as their society *The Age of Immunology* with its combination of philosophy history and cultural inquiry will be seen as a manifesto for a new age and a new way of thinking about the world and our place in it      *Invertebrate Immunology* B. Rinkevich,W.E.G. Müller,2012-12-06 The biological bases of invertebrate immune responses have interested scientists for decades from the first relevant observation by E Metchnikoff in 1882 who discovered phagocytosis while studying starfish larvae Invertebrate immunology

first began to be appreciated as an important field in the late 1960s and 1970s. However, in the following years, there was much controversy regarding the question: do invertebrates offer insight into the origin of the sophisticated immune responses of the vertebrates? There are several reasons why progress in research on invertebrate immune competence has been painfully slow. One of the main impediments to the progress, as compared to the fast development of knowledge in the vertebrate systems, was the fact that most of the studies concentrated on whole organism assays, mainly on grafting tissues between allogeneic partners. Only in the last few years have more and more aspects of invertebrate immunity been investigated on the cellular, biochemical, and molecular levels. These studies led to discoveries of novel defense reactions, new pathways of effector mechanisms which are elicited after recognition of nonself and complex, sometimes highly polymorphic genetic elements that control invertebrate immune reactions. The importance of invertebrate immunity for understanding immunology as a whole, despite the conflicting models and hypotheses, is now much more recognized than before. Although most of the 20 phyla belonging to the invertebrates have different modes of life, body organizations, habitats occupied, and biochemical patterns, they show striking aspects of exceptional precision for discriminating between self and nonself.

*Human Adaptation* Howard Morphy, G. A. Harrison, 2020-12-22. This book examines the concept of adaptation in four major fields in the human sciences. Genetic aspects are first considered through an examination of the human genes which have so far been identified as conferring survival value in particular environmental circumstances. The drift versus selection argument is also fully reviewed. The second contribution concerns the physiological changes which occur when individuals move from one environment to another. In the past, most attention has been given to the mechanisms of these changes, but here the focus is on the effects. The third contribution is directed at the analysis of behaviour, especially social behaviour. The application of kin selection and reciprocal attraction theories to humans is explored, and the value of these approaches explained, whether the behaviour has a genetic basis or not. The final essay deals with the relevance of the adaptation concept to the social sciences and especially to social anthropology. It demonstrates that an ecological approach to understanding the nature and structure of human societies demands attention to adaptation. Reprinted in paperback for the first time and with a new foreword, this book, which serves as an excellent teaching text, clearly shows how attempts at integration in each of these various fields can benefit the study of human evolution, social structure, and organization from all perspectives. Advances in Corneal Research Jonathan H. Lass, 2012-12-06. These Proceedings of the Fourth International Congress on the Cornea continue a tradition of summarizing the state of the art, basic and clinical research in cornea and external diseases, since the first Congress was held in 1964. Reflecting the emerging importance of refractive surgery, two of the twelve sessions of the Congress were devoted to refractive surgery; this is reflected in an emphasis in these Proceedings. In addition, an entire session was devoted to the molecular and cellular biology of the cornea, with important new information on the role of growth factors and cytokine modulation of corneal wound healing. Within these Proceedings, an international group of expert

researchers and practitioners provide the latest insights into the tear film and ocular surface corneal trans plantation and eyebanking the corneal stroma and endothelium contact lenses microbial and nonmicrobial keratitis keratoconus and world corneal health Notable subjects covered include the latest understanding of the barrier function of the ocular surface epithelium corneal hydration control the molecular mechanisms controlling gene expression in corneal wound healing stromal epithelial interactions in the cornea the immunology of blepharitis the effect of contact lenses on the conjunctiva morphologic and functional evaluation of the human corneal endothelium long term follow up of penetrating keratoplasty in keratoconus the Tampa trephine penetrating keratoplasty and the refractive results of the Nidek EC 5000 excimer laser

**The Human IgG Subclasses** Farouk Shakib, 2016-04-20 This book features contributions from internationally renowned scientists from Europe and the USA covering aspects of immunoglobulin subclasses from a molecular and mechanistic approach The first section presents a detailed discussion of the molecular structure and segmental flexibility of IgG subclasses including how this controls their effector function Structure function relationships are fully developed in the second section by means of a functional approach to the study of complement activation and opsonization by IgG subclasses The final section contains a generous account of the regulation of IgG subclass expressions **The Primordial VRM**

**System and the Evolution of Vertebrate Immunity** John Stewart, 1994 This book discusses the evolutionary origin of immunoglobulins and T cell receptors The complex interactions between B and T cells in response to external antigens are the major focus of contemporary immunology This book argues that these interactions may be relatively late evolutionary developments due to the redeployment of a system invented for other reasons In other words immunoglobulins did not arise in evolution to fight infection The author theorizes that the system of variable region molecular VRM arose at the time of the first vertebrates by an endogenous self organizing process This primordial VRM system instituted a molecular ecology a function so vital that from then on no vertebrate has been able to do without it National Library of Medicine Current

Catalog National Library of Medicine (U.S.), 1989 Developmental Immunology Edwin Lowell Cooper, Eric Nisbet-Brown, 1993 This timely comprehensive volume draws on recent advances in molecular cellular and organismal biology to provide a detailed analysis of the phylogeny and ontogeny of the immune system This first book to provide broad coverage of this field gives a clear description of cellular and molecular interactions in the development of immune function Although most of this work is based on studies in vertebrates the intriguing observations of cytokine like molecules in invertebrates are discussed In a final section the contributors deal with abnormalities in the development and regulation of the immune system including primary immunodeficiency diseases and with the normal aging of the immune system Throughout the book an effort has been made to compare and integrate information from studies in diverse systems and to discuss the limitations of such comparisons This work will be of special interest to immunologists and theoretical cell and developmental biologists and much of the book will be useful to physicians working in pediatrics internal medicine and

reproductive medicine      *Canadian Journal of Medical Technology* ,1990      The Best Books for Academic Libraries:  
Science, technology, and agriculture ,2002      **Freeing the Goose in the Bottle** Debra Jan Bibel,1992      **The Limits of**  
**the Self** Thomas Pradeu,2012-02-27 Immunology asserts that an individual can be defined through self and nonself Thomas  
Pradeu argues that this theory is inadequate because immune responses to self constituents and immune tolerance of foreign  
entities are the rule not the exception

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