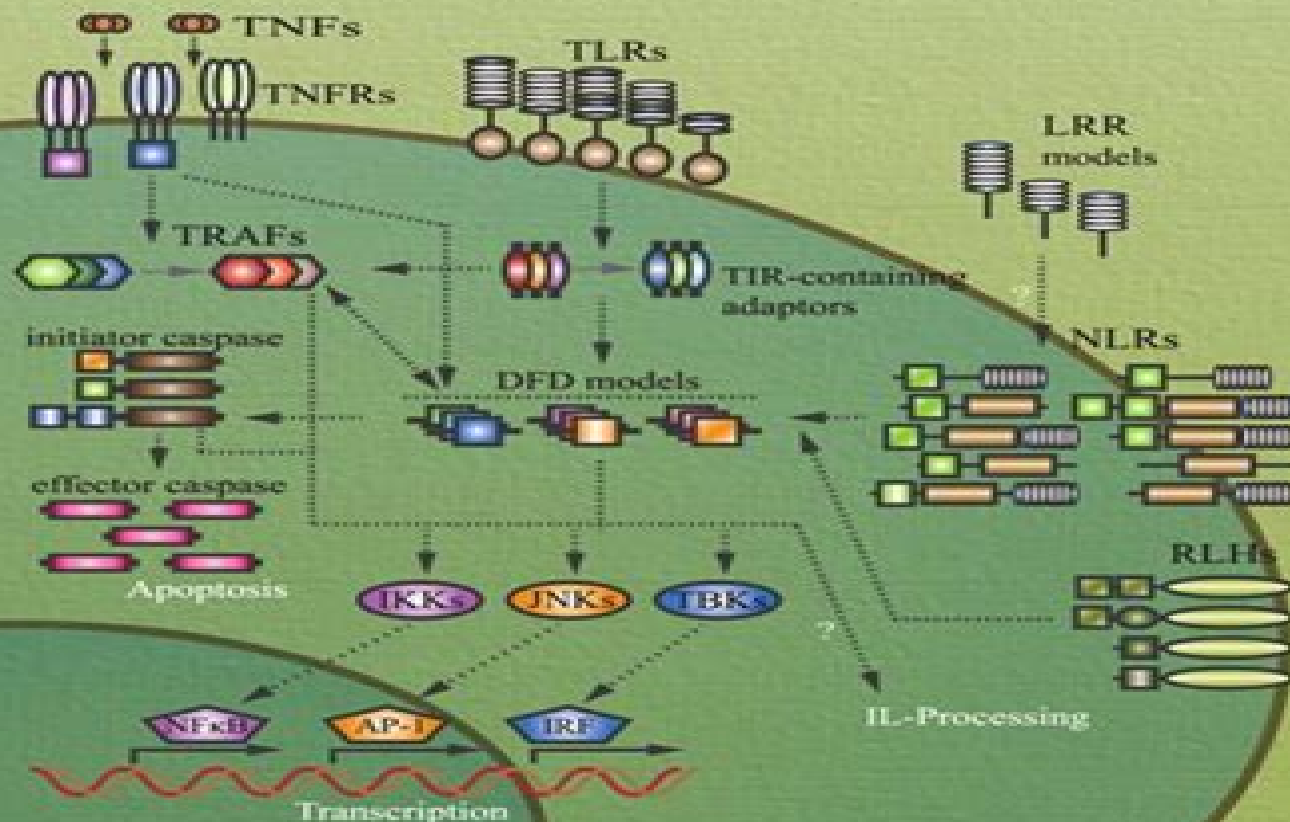


AMPHIOXUS IMMUNITY

Tracing the Origins of Human Immunity

Edited by Anlong Xu



Amphioxus Immunity Tracing The Origins Of Human Immunity

Edwin L. Cooper



Amphioxus Immunity Tracing The Origins Of Human Immunity:

Amphioxus Immunity An-Long Xu, 2015-12-31 *Amphioxus Immunity Tracing the Origin of Human Immunity* covers a remarkable range of information about Amphioxus and its evolutionary context. This compilation of what is currently known about Amphioxus with a sharp focus on its immune system includes 13 topics such as Amphioxus as a model for understanding the evolution of vertebrates, basic knowledge of immunology, immune organs and cells of amphioxus, a genomic and transcriptomic view of the Amphioxus immunity pattern, recognition system in Amphioxus, transcription factors in Amphioxus, the complement system of Amphioxus, the oxidative burst system in Amphioxus, immune effectors in Amphioxus, lipid signaling of immune response in Amphioxus, apoptosis in amphioxus, primitive adaptive immune system of Amphioxus, and future research directions. This valuable reference book is loaded with information that will be useful for anyone who wishes to learn more about the origin of vertebrates and adaptive immunity. Provides new evidence on the origin of the adaptive immune system, the evolution of innate immunity and evolution stage specific immune defense mechanisms. Not only presents the cells and molecules involved in the adaptive immune response in Amphioxus but also characterizes the origination and evolution of the gene families and pathways involved in innate immunity. Includes much pioneering work from the molecular, genomic and cellular to the individual level. *Amphioxus Immunity* Anlong Xu, 2011

The M2 Macrophage Tamás Röszer, 2020-08-03 Macrophages are core components of the innate immune system. Once activated they may have either pro or anti-inflammatory effects that include pathogen killing, safe disposal of apoptotic cells or tissue renewal. The activation state of macrophages is conceptualized by the so-called M1/M2 model of polarization. M2 macrophages are not simply antagonists of M1 macrophages; rather they represent a network of tissue-resident macrophages with roles in tissue development and organ homeostasis. M2 macrophages govern functions at the interfaces of immunity, tissue development and turnover, metabolism and endocrine signaling. Dysfunction in M2 macrophages can ruin the healthy interplay between the immune system and metabolic processes and lead to diseases such as insulin resistance, metabolic syndrome and type 1 and 2 diabetes mellitus. Furthermore, M2 macrophages are essential for healthy tissue development and immunological self-tolerance. Worryingly, these functions of M2 macrophages can also be disrupted, resulting in tumor growth and autoimmunity. This book comprehensively discusses the biology of M2 macrophages, summarizes the current state of knowledge and highlights key questions that remain unanswered.

Invertebrate Pathology Andrew F. Rowley, Christopher J. Coates, Miranda M. Whitten, 2022 This book assembles an international team of the leading specialists in the field to review the main diseases and pathologic manifestations of all the major invertebrate groups whilst describing their emergence in contexts such as climate change and global food security.

Advances in Comparative Immunology Edwin L. Cooper, 2018-08-07 Immunologists perhaps understandably most often concentrate on the human immune system, an anthropocentric focus that has resulted in a dearth of information about the immune function of all other species within the

animal kingdom However knowledge of animal immune function could help not only to better understand human immunology but perhaps more importantly it could help to treat and avoid the blights that affect animals which consequently affect humans Take for example the mass death of honeybees in recent years their demise resulting in much less pollination poses a serious threat to numerous crops and thus the food supply There is a similar disappearance of frogs internationally signaling ecological problems among them fungal infections This book aims to fill this void by describing and discussing what is known about non human immunology It covers various major animal phyla its chapters organized in a progression from the simplest unicellular organisms to the most complex vertebrates mammals Chapters are written by experts covering the latest findings and new research being conducted about each phylum Edwin L Cooper is a Distinguished Professor in the Laboratory of Comparative Immunology Department of Neurobiology at UCLA s David Geffen School of Medicine *Lenfadenopatiye Multidisipliner Yaklaşım* Can ÖZLÜ,2020-01-15 **Advanced Pharmacology for Prescribers** Brent Luu,Gerald Kayingo,Virginia McCoy Hass,2021-01-13 Delivers the critical information primary care providers need to be thoroughly informed prescribers This unique resource an evidence based pharmacology text and reference for advanced practice students and clinicians guides users in analyzing the pharmacological foundations of drug therapy and fosters the development of sound clinical judgment in determining the appropriate medication for every patient across the lifespan Targeting the specific needs of APRN and PA students and clinicians the text is a bridge between standard lengthy pharmacology texts and quick pocket references that lack information regarding key pharmacotherapy principles Featuring an applied therapeutic approach to major disorders and their pharmacologic treatment the book examines how medications act on the body and visa versa while teaching the rationale for using specific therapeutic agents or drug classes Each chapter includes case studies that apply the concepts discussed relevant diagnostic studies applicable guidelines genomics and important lifespan considerations Of special interest is a chapter on pharmacogenetics explaining the basic principles underlying our current understanding of genetic variations in response to pharmacotherapy and adverse drug reactions Easily digestible chapters include objectives and review questions Ancillary resources include an instructor manual with learning objectives chapter summaries and case studies chapter PowerPoint slides test bank and image bank Key Features Delivers an applied evidence based foundation on the basic science underlying prescribing Targets the specific needs of APRN and PA students and professionals and related healthcare providers Provides clinical decision making tools and principles to support sound prescribing judgment Focuses on synthesizing drugs to manage commonly occurring disorders Includes strategies for addressing the needs of specific populations throughout the lifespan Includes abundant case studies illuminating key concepts Includes a robust instructor manual with learning objectives chapter summaries and case studies PowerPoint slides test bank and image bank Purchase includes access to the eBook for use on most mobile devices or computers *Antimicrobial Peptides and Innate Immunity* Pieter S. Hiemstra,Sebastian A. J. Zaat,2013-02-01 Antimicrobial

peptides have been the subject of intense research in the past decades and are now considered as an essential part of the defense system in bacteria plants animals and humans his book provides an update on these effector molecules of the innate immune system both for researchers who are already actively involved in the area and for those with a general interest in the topic The book starts with an overview of the evolution of cysteine containing antimicrobial peptides including defensins and the role of these peptides in host defense in plants and micro organisms The realization that antimicrobial peptides also display functions distinct from their direct antimicrobial action is the focus of the next chapters and puts these peptides center stage in immunity and wound repair Further chapters discuss the role of antimicrobial peptides in disease by providing an overview of mechanisms in bacterial resistance to antimicrobial peptides and a discussion of their role in inflammatory bowel disease cystic fibrosis lung disease and chronic obstructive pulmonary disease Finally the book shows how knowledge of the function of antimicrobial peptides and their regulation can be used to design new therapies for inflammatory and infectious disorders This is a very important area of research because of the increase in resistance of micro organisms to conventional antibiotics Therefore the use of synthetic or recombinant peptides or agents that stimulate the endogenous production of antimicrobial peptides provides an attractive alternative for conventional antibiotics

Skin Immune System (SIS) Jan D. Bos,1997-04-10 Immunodermatology is a field covering the majority of skin diseases including the most prevalent ones in the general population The Second Edition of Skin Immune System SIS discusses immune mediated skin diseases and disease groups in which the SIS plays a role It covers major findings in immunophysiology and immunopathology that have occurred since the introduction of the First Edition in 1990 As the subtitle indicates the Second Edition adds a new emphasis on cutaneous immunology and also includes new information on immune based therapeutic interventions and methods such as phototherapy and the immunological therapy of skin cancer The book contains Part I with introductory chapters Part II with descriptions of the cellular elements and Part III which describes the humoral and molecular components of SIS Part IV follows to integrate the facts described in Parts II and III into concepts of pathophysiology It contains a number of concepts entitled response patterns that describe how the constitutional elements of SIS work together New in this edition are the descriptions of immunodermatological diseases individually described in Part V Part VI is also all new and summarizes principles of immunotherapy

Evolution and Comparative Immunology of Immune Systems in Marine Organisms Gyri T. Haugland,Sissel Jentoft,Monica Hongroe Solbakken,2022-02-14

Changing Views of the Evolution of Immunity Gary W. Litman,Larry J. Dishaw,2014-01-22 The multitude of cells signaling pathways receptors novel genetic recombination mechanisms and interactive pathways of receptor function and cell differentiation that constitute the vertebrate adaptive immune system are integrally linked with the multicomponent innate immune system At first glance the levels of complexity seen in both systems at the phylogenetic level of mammals present what seem to be insurmountable hurdles in terms of achieving a systematic understanding of the evolution of immunity New research

directions and approaches suggest that resolution of many long standing questions in this area is now possible Historically immunologists considered lower vertebrates and invertebrates as simpler forms i e they were expected to possess more basic less layered levels of immunological complexity and thus potentially would serve as important resources By considering the systematic placement of representative species in the context of phylogeny characterizing their immune receptors co receptors as well as accessory molecules and evaluating responses to immunologic stimuli it was thought that a clearer picture of immune evolution would emerge There is no doubt that this approach has achieved some notable successes but for the most part it has fallen short in terms of achieving a broad understanding of the immunologic needs of many relevant models and how adaptive change in immune function is effected Even if a structurally relevant ortholog of an immune effector is identified in a model organism there is no reason to assume that it functions in a corresponding manner in disparate phylogenetic taxa For example survival of a sessile marine invertebrate whose anatomical form puts it in open and contiguous contact with a literal sea of microorganisms and viruses would be thought to depend at least in part on a capable immune response however at present we have no real understanding of how this is achieved in an integrated manner Furthermore questions arise as to whether or not phenomena that are considered integral components of vertebrate type immunity such as memory tolerance somatic change and clonal selection exist in invertebrates and if their functions parallel those recognized in mammals More often than not our interpretations are guided by preconceived notions that are based on observations made in distant species that often do not apply to far removed taxa We anticipate that major advances in our understanding of this broad subject are now forthcoming as resources exist or are being developed for examining important model organisms in their natural environments instead of within the confines of in vitro systems of potentially remote physiological significance Taking a wide range of hypotheses observations and interpretations into account in this special topic contributors have developed a comprehensive overview emphasizing new directions and interpretations for understanding basic aspects of immunity that consider unique features inherent to various model systems their life histories and habitats Approaches applied with key model organisms maintained and confronted with relevant challenges under natural conditions are emphasized Current concepts of self and nonself are addressed not only in terms of immunity but also reproductive fitness How genetic variation in immune effector molecules is achieved and maintained in natural populations is examined particular attention is directed to response interfaces that factor in symbiotic interactions Gene expansion and mechanisms of genetic diversification are explored How diverse molecules and a variety of effector cells contribute to our broad understanding of the evolution of a remarkably complex integrated system and how this work is facilitating our understanding of mammalian immunity is addressed

The Hypothalamus-Pituitary-Adrenal Axis ,2008-09-12 The hypothalamic pituitary adrenal axis controls reactions to stress and regulates various body processes such as digestion the immune system mood and sexuality and energy usage This volume focuses on the role it plays in the immune system and

provides substantive experimental and clinical data to support current understanding in the field and potential applications of this knowledge in the treatment of disease Evidence presented in this book suggests that the nervous endocrine and immune systems form the Neuroendoimmune Supersystem which integrates all the biological functions of higher organisms both in health and disease for their entire life cycle Contributors include both the scientists who initiated the work on the HPA axis and on the autonomic nervous system and those who joined the field later

Encyclopedia of Immunology,1992

M1/M2 Macrophages: The Arginine Fork in the Road to Health and Disease Charles Dudley Mills,Laurel L Lenz,Klaus Ley,2015-03-23 Macrophages have unique and diverse functions necessary for survival And in humans and other species they are the most abundant leukocytes in tissues The Innate functions of macrophages that are best known are their unusual ability to either Kill or Repair Since killing is a destructive process and repair is a constructive process it was stupefying how one cell could exhibit these 2 polar opposite functions However in the late 1980 s it was shown that macrophages have a unique ability to enzymatically metabolize Arginine to Nitric Oxide NO a gaseous non specific killer molecule or to Ornithine a precursor of polyamines and collagen for repair The dual Arginine metabolic capacity of macrophages provided a functional explanation for their ability to kill or repair Macrophages predominantly producing NO are called M1 and those producing Ornithine are called M2 M1 and M2 dominant responses occur in lower vertebrates and in T cell deficient vertebrates being directly driven by Damage and Pathogen Associated Molecular Patterns DAMP and PAMP Thus M1 and M2 are Innate responses that protect the host without Adaptive Immunity In turn M1 M2 is supplanting previous models in which T cells were necessary to activate or alternatively activate macrophages the Th1 Th2 paradigm M1 and M2 macrophages were named such because of the additional key findings that these macrophages stimulate Th1 and Th2 like responses respectively So in addition to their unique ability to kill or repair macrophages also govern Adaptive Immunity All of the foregoing would be less important if M1 or M2 dominant responses were not observed in disease But they are The best example to date is the predominance of M2 macrophages in human tumors where they act like wound repair macrophages and actively promote growth More generally humans have become M2 dominant because sanitation antibiotics and vaccines have lessened M1 responses And M2 dominance seems the cause of ever increasing allergies in developed countries Obesity represents a new and different circumstance Surfeit energy e g lipoproteins causes monocytes to become M1 dominant in the vessel walls causing plaques Because M1 or M2 dominant responses are clearly causative in many modern diseases there is great potential in developing the means to selectively stimulate or inhibit either M1 or M2 responses to kill or repair or to stimulate Th1 or Th2 responses depending on the circumstance The contributions here are meant to describe diseases of M1 or M2 dominance and promising new methodologies to modulate the fungible metabolic machinery of macrophages for better health

The Journal of Immunology ,2005

Encyclopedia of Immunology:

Nuit-Z Ivan Maurice Roitt,1998 Encyclopedia of immunology provides the largest integrated reference source of

immunological knowledge that is available Covered are ABO Blood Group System to Cooperation Mechanisms of Cellular Copper and the Immune System to Idiotype Network Iga Igss CD79a CD79b to Nude AthymicMice Nutrition and the Immune System to Zinc and the Immune System **Primitive Immune Systems** Jules Hoffmann,2004 *Marine OMICS* Se-Kwon Kim,2016-11-18 This book provides comprehensive coverage on current trends in marine omics of various relevant topics such as genomics lipidomics proteomics foodomics transcriptomics metabolomics nutrigenomics pharmacogenomics and toxicogenomics as related to and applied to marine biotechnology molecular biology marine biology marine microbiology environmental biotechnology environmental science aquaculture pharmaceutical science and bioprocess engineering

Metchnikoff and the Origins of Immunology Alfred I. Tauber,Leon Chernyak,1991-07-25 This fascinating intellectual history is the first critical study of the work of Elie Metchnikoff the founding father of modern immunology Metchnikoff authored and championed the theory that phagocytic cells actively defend the host body against pathogens and diseased cells His program developed from comparative embryological studies that sought to establish genealogical relations between species at the dawn of the Darwinian revolution In this scientific biography Tauber and Chernyak explore ore Metchnikoff s development as an embryologist showing how it prepared him to propose his theory of host pathogen interaction They discuss the profound impact of Darwin s theory of evolution on Metchnikoff s progress and the influence of 19th century debates on vitalism teleology and mechanism As a case study of scientific discovery this work offers lucid insight into the process of creative science and its dependence on cultural and philosophic sources Immunologists and historians of science and medicine will find it an absorbing and accessible account of a remarkable individual Genome Research ,2008

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