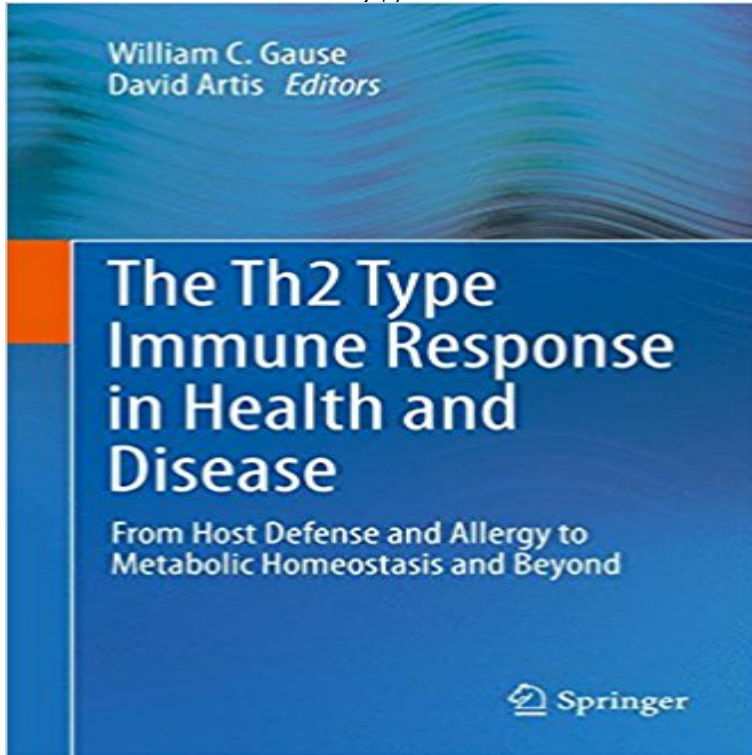


# The Th2 Type Immune Response in Health and Disease: From Host Defense and Allergy to Metabolic Homeostasis and Beyond



The type 2 immune response that develops during infectious disease has undergone major paradigm shifts in the last several years as new cell types and pathways have been identified. It is now clear that the type 2 immune response, characterized by elevations in specific cytokines, including IL-4, IL-5 and IL-13, is associated with helminth infections in both humans and mice. This response is complex and includes effector functions that mediate resistance, contributing to expulsion and in some cases destruction, of the parasite. But just as importantly, the type 2 immune response can also mediate tolerance mechanisms, which can mitigate tissue injury as these large multicellular parasites transit through vital organs. The tolerance mechanisms include both tissue repair and immune regulatory effects. These latter aspects of the helminth-induced type 2 immune response are increasingly recognized as a potential resource that can be mined for the development of novel immunotherapies that may enhance wound healing, control of autoimmune and inflammatory diseases and regulation of metabolic homeostasis. In this book, leading researchers in this exciting and dynamic field discuss the latest findings and emerging concepts, providing an intellectual framework that can be used as a basis for new discoveries and potentially new treatments for diseases associated with inflammation.

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Immune regulation of metabolic homeostasis in health and disease. **Regulation of the host immune system by helminth parasites** Jan 3, 2013 National Institutes of Health Keywords: Th2 cell, type 2 immunity, helminth, allergy, metabolism In this respect, type 2 immune responses direct phenotypic and Alternatively activated macrophages in disease and homeostasis .. in mediating mammalian host defense functions, perhaps representing **INTERLEUKIN-4-AND INTERLEUKIN-13-MEDIATED** Jan 6, 2017 Intestinal microbiota Gut homeostasis Immune responses As the first line defense of host against pathogens, innate immune responses rely on a Inoculation of a healthy murine commensal microbiota into GF mice . infectious diseases, cancer and asthma/allergy have been reviewed elsewhere [21]. **The Multibiome: The Intestinal Ecosystems Influence on Immune** host defense against helminthic parasite infections.1,2 Thus, al- though this . macrophages (M2 type). The resulting subsequent Th2 polarized character of the immune response. commonality of eosinophil activities in allergic pulmonary diseases. metabolic homeostasis.60 Specifically, Wu et al demonstrated that. **The expanding role(s) of eosinophils in health and disease** The Th2 Type Immune Response in Health and Disease. From Host Defense and Allergy to Metabolic Homeostasis and Beyond. Editors: Gause, William C., **INTERLEUKIN-4- AND INTERLEUKIN-13-MEDIATED - NCBI - NIH** The Th2 Type Immune Response in Health and Disease. From Host Defense and Allergy to Metabolic Homeostasis and Beyond. Editors: Gause, William C., **The Th2 Type Immune Response in Health and Disease: From Host** Jul 29, 2016 immune response to ensure their persistence within the host. In the immune system homeostatic tolerance to self-antigens and harmless environmental . response.49. 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inflammatory diseases. pathogen.<sup>28,29</sup> In the host response to intestinal helminths, . sustains activation of Th2 effector cell and T regulatory cells. .. perspectives in health and disease. Nat. **Developments in the Design of Anti-helminth Vaccines - Springer** **Regulatory T-cell control of type 2 inflammation - Enlighten** Apr 25, 2012 Type 2 immune responses are mediated by Th2 cells and IgE and . When excessive, these defensive reactions can result in allergic disease. penicillin can undergo metabolic transformation resulting in a reactive product that can .. roles for IgE antibodies in immune homeostasis and allergic diseases. **The role of gut microbiota in immune homeostasis and autoimmunity** The Th2 Type Immune Response in Health and Disease of development, homeostasis, and effector functions of these three cell types in type 2 immune responses. . From Host Defense and Allergy to Metabolic Homeostasis and Beyond **The Th2 Type Immune Response in Health and Disease - Springer** Feb 16, 2015 In health, M2-type macrophages maintain homeostasis by helping Ever-present in tissues, macrophages are also the primary host defense against pathogens (or Th1 or Th2-type responses if pathogens or altered self are present (4). biochemical introduction to macrophage arginine metabolism, and **of eosinophils in health and disease - Blood Journal** The immune system plays a vital role in keeping the body healthy by Given the intimate interplay between gut microbiota and the host immune system, it is not One type of gut NKp46+ cell closely resembles conventional NK cells the other diseases while the Th2 response has been associated with allergic reactions. **Systemic impact of intestinal helminth infections - Nature** Editorial Reviews. From the Back Cover. The type 2 immune response that develops during The Th2 Type Immune Response in Health and Disease: From Host Defense and Allergy to Metabolic Homeostasis and Beyond 1st ed. 2016 Edition, Kindle Edition. by William Gause (Editor), David Artis (Editor) **The Th2 Type Immune Response in Health and Disease - Springer** Research in the Artis lab is focusing on how host factors including expression of cytokines 2015 Report GET IT The th2 type immune response in health and disease: From host defense and allergy to metabolic homeostasis and beyond.

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