

REVIEW

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An introduction to immunology and immunopathology

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Abstract

Beyond structural and chemical barriers to pathogens, the immune system has two fundamental lines of defense: innate immunity and adaptive immunity. Innate immunity is the first immunological mechanism for fighting against an intruding pathogen. It is a rapid immune response, initiated within minutes or hours after aggression, that has no immunologic memory. Adaptive immunity, on the other hand, is antigen-dependent and antigen-specific; it has the capacity for memory, which enables the host to mount a more rapid and efficient immune response upon subsequent exposure to the antigen. There is a great deal of synergy between the adaptive immune system and its innate counterpart, and defects in either system can provoke illness or disease, such as inappropriate inflammation, autoimmune diseases, immunodeficiency disorders and hypersensitivity reactions. This article provides a practical overview of innate and adaptive immunity, and describes how these host defense mechanisms are involved in both health and illness.

Background

There are continuous advances in our current understanding of the immune system and how it functions to protect the body from infection. Given the complex nature of this subject, it is beyond the scope of this article to provide an in-depth review of all aspects of immunology. Rather, the purpose of this article is to provide medical students, medical residents, primary-care practitioners and other healthcare professionals with a basic introduction to the main components and function of the immune system and its role in both health and disease. This article will also serve as a backgrounder to the immunopathological disorders discussed in the remainder of this supplement.

The immune system: innate and adaptive immunity

The immune system refers to a collection of cells, chemicals and processes that function to protect the skin, respiratory passages, intestinal tract and other areas from foreign antigens, such as microbes (organisms

such as bacteria, fungi, and parasites), viruses, cancer cells, and toxins. Beyond the structural and chemical barriers which protect us from infection, the immune system can be simplistically viewed as having two "lines of defense": innate immunity and adaptive immunity. Innate immunity represents the first line of defense to an intruding pathogen. It is an antigen-independent (non-specific) defense mechanism that is used by the host immediately or within hours of encountering an antigen. The innate immune response has no immunologic memory and, therefore, it is unable to recognize or "memorize" the same pathogen should the body be exposed to it in the future. Adaptive immunity, on the other hand, is antigen-dependent and antigen-specific and, therefore, involves a lag time between exposure to the antigen and maximal response. The hallmark of adaptive immunity is the capacity for memory which enables the host to mount a more rapid and efficient immune response upon subsequent exposure to the antigen. Innate and adaptive immunity are not mutually exclusive mechanisms of host defense, but rather are complementary, with defects in either system resulting in host vulnerability or inappropriate responses [1–3].

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Allergy Asthma Clin Immunology

JE Gale



Allergy Asthma Clin Immunology:

The Manual of Allergy and Clinical Immunology Abeer Feteih, Michael Fein, Natacha Tardio, 2021-12-27 The Manual of Allergy and Clinical Immunology provides brief clinical summaries of complex and emerging topics encountered in the field of Allergy and Clinical Immunology As knowledge in the specialty is rapidly evolving this book condenses this material while maintaining an evidence based approach to the practice It addresses recent developments in allergy and clinical immunology as there is an increased awareness and interest in these topics due to their impact on a large cohort of the population It is a quick go to practical and informative guide for students and residents studying for their exams as well as for clinicians in practice Key Features Serves as a handy practical reference guide to immunologic and allergic diseases for healthcare professionals in both primary and specialty medicine as well as a study resource for medical students and trainees Summarizes high yield clinical information in the field to make it easily accessible and user friendly for clinicians and students Several chapters include a unique section on the management of allergic immunologic disorders in pregnant women

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health and disease conditions clinicians researchers and students increasingly require an exclusive scientific reference to guide them on matters of immunologic based diseases Accordingly despite the existence of numerous high quality references in basic and cellular molecular immunology which deeply explain different immunologic mechanisms there is still a knowledge gap in the field of clinical immunology Provides essentials updates clinical knowledge regarding immune system diseases and cover different aspects of clinical immunology from immunopathogenesis and etiology to diagnosis and treatment Introduces the most advanced approaches and laboratory tests as well as their interpretation in the diagnosis of immune system disorders Focuses on the practical use of clinical immunology from bedside to bench and vice versa **The**

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Bacharier,Gurjit K. Khurana Hershey,R. Stokes Peebles,2019-09-25 Through eight outstanding editions Middleton s Allergy Principles and Practice has been the reference of choice for both clinicians and researchers as both a practical reference and

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