

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

Lingjun Ying



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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online ideal for allergists and rheumatologists seeking certification or recertification in these subspecialties Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices *The Washington Manual Allergy, Asthma, and Immunology Subspecialty Consult* Andrew Kau, Jennifer Marie Monroy, Brooke Ivan Polk, Christopher J. Rigell, 2021-03-29 Concise portable and user friendly The Washington Manual Allergy Asthma and Immunology Subspecialty Consult Third Edition provides essential information on inpatient and outpatient management of allergy asthma and immunologic disorders This edition offers practical guidance on diagnosis investigation and treatment including state of the art content on biomedical discoveries and novel therapeutics Ideal for residents fellows and practicing physicians who need quick access to current scientific and clinical information in this fast changing area the manual is also useful as a first line resource for internists and other primary care providers **Allergy and Clinical Immunology** Hugh A. Sampson, 2025-06-16 Mount Sinai Expert Guides Allergy and Clinical Immunology will provide trainees in allergy and immunology with an extremely clinical and accessible handbook covering the major disorders and symptoms their diagnosis and clinical management Perfect as a point of care resource on the hospital wards and also as a refresher for board exam preparation the focus throughout is on providing rapid reference essential information on each disorder to allow for quick easy browsing and assimilation of the must know information All chapters follow a consistent template including the following features An opening bottom line key points section Classification pathogenesis and prevention of disorder Evidence based diagnosis including relevant algorithms laboratory and imaging tests and potential pitfalls when diagnosing a patient Disease management including commonly used medications with dosages management algorithms and how to prevent complications How to manage special populations ie in pregnancy children and the elderly The very latest evidence based results major society guidelines and key external sources to consult In addition the book comes with a companion website housing extra features such as case studies with related questions for self assessment key patient advice and ICD codes Each guide also has its own mobile app available for purchase allowing you rapid access to the key features wherever you may be If you re specialising in allergy and immunology and require concise practical and clinical guidance from one of the world s leading institutions in this field then this is the perfect book for you This title is also available as a mobile App from MedHand Mobile Libraries Buy it now from iTunes Google Play or the MedHand Store *Clinical Immunology, Principles and Practice (Expert Consult - Online and Print)*, 4 Thomas A. Fleisher, William T. Shearer, Anthony J. Frew, Harry W. Schroeder, Jr., Cornelia M. Weyand, 2013-01-01 Written and edited by international leaders in the field this book has through two best selling editions been the place to turn for authoritative answers to your toughest challenges in clinical immunology Now in full color and one single volume the 3rd Edition brings you the very latest immunology knowledge so you can offer your patients the best possible care The user friendly book and the fully searchable companion web site give you two ways to find the answers you need quickly and

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Textbook of Allergy for the Clinician Pudupakkam K. Vedanthan, Harold S. Nelson, Shripad N. Agashe, PA Mahesh, Rohit Katial, 2021-02-04 This is the second and updated version of the Textbook of Allergy for the Clinician It is a unique book in the field of allergy The uniqueness lies in the international character of the book with contributors representing both the East and West This book represents the diversity of issues affecting patients in the specialty of allergy asthma immunology There is some discussion of the basic mechanisms involved and extensive elaboration for the clinicians This book will appeal to medical students residents and fellows undergoing training as well as consultants in academic and clinical practice settings The color plates especially in the section on Aerobiology will help in the interaction between the patient and consultant in identifying the plant or flora which is the causative factor The differences and similarities between the Eastern and Western approaches in the practice of the specialty are being addressed for the first time in a book

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