

<<免疫学>>

图书基本信息

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作者：Male MA PhD, David

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内容概要

The 4th Edition of this pocket-sized, illustrated dictionary offers a concise, evidence-based approach to the immune system. The book divides the subject into five easy-to-review sections: The Immune System, Antigen Recognition, Immune Responses, Immunopathology, and Immunological Techniques. Each of these sections is then sub-divided into short, paragraphs that define key terms and concepts. Fifty new immunological definitions in the Index of Terms, in addition to newly updated definitions and vocabulary, reflect the many advances in the field. Readers will appreciate the highly organized, cross-referenced approach that allows them to master key concepts.

Lists core terms and concepts that are followed by short, straightforward definitions. Amplifies the text with simple color diagrams and illustrations and cross-referencing between definitions. Offers easy and rapid access to straightforward, easily understood definitions in the Index of Terms. Provides three updated and reorganized sections: Antigen Recognition, Immune Responses, and Immunopathology. Adds 50 new definitions to the Index of Terms that reflect the rapid developments in the field, and updates all others.

Enhances terminology with 12 new color illustrations adapted by the author from his interactive CD-ROMs.

书籍目录

How to Use this Book Acknowledgements Index of Terms

1. The immune system Introduction Lymphocytes
 NK cells Markers Antigen-presenting cells Phagocytes and auxiliary cells Lymphoid system Leucocyte development Thymus T-cell development Lymph nodes Spleen GALT (gut-associated lymphoid tissue)

2. Antigen recognition Antigen receptors Antibody structure Antibody - structural variations
 Antibody functions Antibody genes Antibody fragments Antigens Antigen/antibody interactions
 T-cell antigen receptor (TCR) T-cell receptor genes MHC molecules MHC genes

3. Immune responses
 Adaptive and innate immunity Antibody response Cell cooperation Antigen presentation T-cell activation B-cell activation Cytokines Cytokine receptors Phagocytosis Toll-like receptors Receptors on myeloid cells Complement receptors Fc receptors Cytotoxicity Inflammation Mechanisms of cell migration Chemokines and chemokine receptors Complement Immunoregulation Genetic polymorphism in the immune response Immunosuppression Immunopotentialiation
 Tolerance

4. Immunopathology Immunodeficiency Transplantation MHC disease associations MHC typing Transgenic mice Animal models and mutant strains Autoimmune disease Hypersensitivity Type I (immediate) hypersensitivity Type II (antibody-mediated) hypersensitivity Type III (immune complex-mediated) hypersensitivity Type IV (delayed) hypersensitivity (DTH)

5. Immunological techniques
 Assays for antigen and antibody Isolation of cells Clones and cell lines Cellular functions

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