

## Hypersensitivity Mechanisms An Overview

Allergy, Immunity and Tolerance in Early Childhood: The First Steps of the Atopic March provides valuable insights on the atopic diseases, including asthma, allergic rhinitis, atopic dermatitis, and food allergies, which have developed into major health problems in most parts of the world. As the natural history of these chronic diseases has been extensively studied, including their major genetic, environmental, and lifestyle determinants and potential protective factors, the book presents tactics on how pediatric allergists can provide early intervention. In addition, the book unites key, global experts in the field who summarize their collective, and current, knowledge of the early stage of the "Atopic March", along with novel ideas for potential options of prevention. Summarizes the current knowledge of the epidemiological, genetic, and cellular basis of allergic diseases Ideal reference for the study of allergies in young children, atopic dermatitis, allergic rhinitis, childhood asthma, and food allergies Provides landmark findings in the field of immunology and allergy development Fulfills the need for a book that focuses on primary and secondary allergy prevention, especially during the first years of life Unites key, global experts in the field who summarize their collective, and current, knowledge, along with novel ideas for potential options of prevention

With a focus on improving diagnosis and treatment, Drug Allergy Testing is your new go-to resource for understanding various drug allergies and testing methods, the epidemiology of and economic impact of drug allergies, and new drug and allergy developments. Features a wealth of up-to-date information for allergists, immunologists, and primary care physicians who diagnose and treat patients with drug allergies and hypersensitivity. Covers the basics of drug allergy evaluation and management as well as specific drugs including antibiotics, ASA/NSAIDs, chemotherapeutic agents and monoclonal antibodies.

More than 50 million Americans, one out of five, suffer from hay fever, asthma, and other allergic diseases. Many of these conditions are caused by exposure to allergens in indoor environments such as the house, work, and school--where we spend as much as 98 percent of our time. Developed by medical, public health, and engineering professionals working together, this unique volume summarizes what is known about indoor allergens, how they affect human health, the magnitude of their effect on various populations, and how they can be controlled. The book addresses controversies, recommends research directions, and suggests how to assist and educate allergy patients, as well as professionals. Indoor Allergens presents a wealth of information about common indoor allergens and their varying effects, from significant hay fever to life-threatening asthma. The volume discusses sources of allergens, from fungi and dust mites to allergenic chemicals, plants, and animals, and examines practical measures for their control. Indoor Allergens discusses how the human airway and immune system respond to inhaled allergens and assesses patient testing methods, covering the importance of the patient's medical history and outlining procedures and approaches to interpretation for skin tests, in vitro diagnostic tests, and tests of patients' pulmonary function. This comprehensive and practical volume will be important to allergists and other health care providers; public health professionals; specialists in building design, construction, and maintenance; faculty and students in public health;

and interested allergy patients.

Written in the same engaging conversational style as the acclaimed first edition, *Primer to The Immune Response, 2nd Edition* is a fully updated and invaluable resource for college and university students in life sciences, medicine and other health professions who need a concise but comprehensive introduction to immunology. The authors bring clarity and readability to their audience, offering a complete survey of the most fundamental concepts in basic and clinical immunology while conveying the subject's fascinating appeal. The content of this new edition has been completely updated to include current information on all aspects of basic and clinical immunology. The superbly drawn figures are now in full color, complemented by full color plates throughout the book. The text is further enhanced by the inclusion of numerous tables, special topic boxes and brief notes that provide interesting insights. At the end of each chapter, a self-test quiz allows students to monitor their mastery of major concepts, while a set of conceptual questions prompts them to extrapolate further and extend their critical thinking. Moreover, as part of the Academic Cell line of textbooks, *Primer to The Immune Response, 2nd Edition* contains research passages that shine a spotlight on current experimental work reported in Cell Press articles. These articles also form the basis of case studies that are found in the associated online study guide and are designed to reinforce clinical connections. Complete yet concise coverage of the basic and clinical principles of immunology Engaging conversational writing style that is to the point and very readable Over 200 clear, elegant color illustrations Comprehensive glossary and list of abbreviations

For decades, health care practitioners have relied on Middleton's *Allergy* as their go-to reference for comprehensive information on allergic disorders. Now Middleton's *Allergy Essentials*, by Drs. Robyn E. O'Hehir, Stephen T. Holgate, and Aziz Sheikh, offers a concise resource that's both easily accessible and highly authoritative. Perfect for clinicians in primary and secondary care settings, this practical volume covers what is most useful in your daily practice, with a strong emphasis on disease diagnosis and management. A practical approach to evaluation, differential diagnosis, and treatment of allergic disorders, focused specifically on what the non-specialist needs to know for everyday practice. Each chapter begins with a handy summary of key concepts to help you quickly identify important information. Coverage of today's hot topics includes asthma, drug allergies, food allergies and gastrointestinal disorders, anaphylaxis, atopic dermatitis, and allergic contact dermatitis. Concise sections on mechanisms are included where relevant, keeping you up to date with this rapidly evolving field. Authored by the same internationally recognized experts that produce Middleton's *Allergy*, the definitive text in the field. Ideal for physicians, residents, general and family practitioners, nurse practitioners, primary care doctors, hospitalists, general internists – anyone who is called upon to make effective diagnostic and treatment decisions regarding allergic disorders.

The Janeway's *Immunobiology CD-ROM, Immunobiology Interactive*, is included with each book, and can be purchased separately. It contains animations and videos with voiceover narration, as well as the figures from the text for presentation purposes.

The prevalence of autoimmune diseases and rheumatic conditions is constantly increasing. Autoimmune diseases affect approximately 7-10% of the population of the United States, while more than 50,000,000 American adults suffer from some type of

arthritis. The Heart in Rheumatic, Autoimmune and Inflammatory Diseases examines the complex mechanisms relating to cardiac diseases from a pathophysiological and clinical point of view. Autoimmune rheumatic diseases can affect the coronary vessels, myocardium, pericardium, heart valves and the conduction system. The diagnosis of these unique cardiac complications necessitates medical awareness and a high index of suspicion. Increased risk of advanced atherosclerosis plays a pivotal role in the development of cardiac diseases in systemic, rheumatic and autoimmune illnesses. Yet, other complex immune mediated mechanisms may contribute to the pathogenesis. Patients' optimal care requires coordination between the primary caregiver, the rheumatologist, immunologist and cardiologist. Screening for cardiovascular risk factors, recognition of high-risk patients and identification of subclinical cardiac conditions are of great importance. Moreover, regulation of inflammation, as well as abnormal immune responses and the initiation of early treatments should be the focus of patient management. A continuous attempt to identify novel therapeutic targets and change the natural history of the underlying disease and its cardiac manifestations is in progress. The book aims at providing the readers with a state of the art collection of up to date information regarding clinically important topics based on experts' perspectives. This book was a result of an extended coordinated collaboration of one-hundred and fifty-four distinguished scientists from thirty-one countries around the globe. A review of common, as well as unusual (yet clinically significant) medical cardiac complications of prevalent rheumatic, autoimmune and inflammatory diseases. Focuses on aspects of pathophysiological processes, clinical presentations, screening tests, prognostic implications and novel therapeutic approaches. Presents an up-to-date "level of evidence and "strengths of recommendations for suggested therapies and reviews all randomized clinical trials, meta-analyses and other supporting published clinical findings.

Up-to-date, authoritative and comprehensive, Heart Failure, 4th Edition, provides the clinically relevant information you need to effectively manage and treat patients with this complex cardiovascular problem. This fully revised companion to Braunwald's Heart Disease helps you make the most of new drug therapies such as angiotensin receptor neprilysin inhibitors (ARNIs), recently improved implantable devices, and innovative patient management strategies. Led by internationally recognized heart failure experts Dr. G. Michael Felker and Dr. Douglas Mann, this outstanding reference gives health care providers the knowledge to improve clinical outcomes in heart failure patients. Focuses on a clinical approach to treating heart failure, resulting from a broad variety of cardiovascular problems. Covers the most recent guidelines and protocols, including significant new updates to ACC, AHA, and HFSA guidelines. Covers key topics such as biomarkers and precision medicine in heart failure and new data on angiotensin receptor neprilysin inhibitors (ARNIs). Contains four new chapters: Natriuretic Peptides in Heart Failure; Amyloidosis as a Cause of Heart Failure; HIV and Heart Failure; and Neuromodulation in Heart Failure. Covers the pathophysiological basis for the development and progression of heart failure. Serves as a definitive resource to prepare for the ABIM's Heart Failure board exam. 2016 British Medical Association Award: First Prize, Cardiology (3rd

Edition).

Veterinary Immunology: Principles and Practice has become the adopted text in numerous veterinary schools throughout the world. Widely updated with advances in knowledge since 2011, this second edition reflects the rapid development in the field. The new edition presents expanded information on commonly used diagnostic test procedures and discusses

Get the BIG PICTURE of Pathology - and focus on what you really need to know to score high on the course and board exam If you want a streamlined and definitive look at Pathology - one with just the right balance of information to give you the edge at exam time - turn to Pathology: The Big Picture. You'll find a succinct, user-friendly presentation especially designed to make even the most complex concept understandable in the shortest amount of study time possible. This perfect pictorial and textual overview of Pathology delivers: A "Big Picture" emphasis on what you must know verses "what's nice to know" Expert authorship by award-winning, active instructors Coverage of the full range of pathology topics - everything from cellular adaptations and injury to genetic disorders to inflammation to diseases of immunity Magnificent 4-color illustrations Numerous summary tables and figures for quick reference and rapid retention of even the most difficult topic Highlighted key concepts that underscore integral aspects of histology (key concepts are also listed in a table at the end of each chapter) USMLE-type questions, answers, and explanations to help you anticipate what you'll encounter on the exams And much more!

This book is open access under a CC BY license. This book is the first to develop explicit methods for evaluating evidence of mechanisms in the field of medicine. It explains why it can be important to make this evidence explicit, and describes how to take such evidence into account in the evidence appraisal process. In addition, it develops procedures for seeking evidence of mechanisms, for evaluating evidence of mechanisms, and for combining this evaluation with evidence of association in order to yield an overall assessment of effectiveness. Evidence-based medicine seeks to achieve improved health outcomes by making evidence explicit and by developing explicit methods for evaluating it. To date, evidence-based medicine has largely focused on evidence of association produced by clinical studies. As such, it has tended to overlook evidence of pathophysiological mechanisms and evidence of the mechanisms of action of interventions. The book offers a useful guide for all those whose work involves evaluating evidence in the health sciences, including those who need to determine the effectiveness of health interventions and those who need to ascertain the effects of environmental exposures.

Mast Cells and Basophils will be essential reading for immunologists, biochemists and medical researchers. Detailed chapters cover all aspects of mast cell and basophil research, from cell development, proteases, histamine, cysteinyl leukotrienes, physiology and pathology to the role of these cells in health and disease. Chapters also discuss the clinical implications of histamine



receptor antagonists.

The Handbook of Immunopharmacology: Lipid Mediators covers a comprehensive overview of lipid mediators, from synthesis through to inhibition. The book discusses the metabolism of arachidonic acid; the measurement of fatty acids and their metabolites; and the biological properties of cyclooxygenase products. The text also describes other essential fatty acids, their metabolites and cell-cell interactions; the inhibitors of fatty acid-derived mediators; as well as the biosynthesis and catabolism of platelet-activating factor. The cellular sources of platelet-activating factor and related lipids; the biological properties of platelet-activating factor; and the effects of platelet-activating factor receptor antagonists are also considered. Immunopharmacologists, immunologists, and pharmacologists will find the book invaluable.

Drug Allergy Clinical Aspects, Diagnosis, Mechanisms, Structure-Activity Relationships Springer Science & Business Media

The prevalence of allergic diseases has increased dramatically over recent decades, both in terms of the number of sufferers and the number of allergies. This is a trend that has frequently been referred to as 'the epidemic of the 21st century'. As described in ancient texts, allergies have been known for over 2,000 years, but the term 'allergy' was only coined at the beginning of the 20th century when doctors began to understand their pathophysiological basis. This book presents a detailed and varied historical overview of the field of allergology. Beginning with insights on allergy from antiquity to the 20th century and the development of the associated terminology, it compiles historical reflections on the understanding of the most common allergic diseases. Important milestones in the discovery of mechanisms of allergy are described, followed by historical accounts of the detection of allergens such as pollen, dust mites, peanuts and latex, and of environmental influences such as pollution and the relationship between farmers and their environment. Several chapters illustrate the progress made in allergy management to date. Particular highlights of this book are the personal reflections of and interviews with a number of pioneers of allergy, including F. Austen, J. Bienenstock, K. Blaser, A. de Weck, A.W. Frankland, K. Ishizaka, and many more. Concluding with portrayals of allergy societies and collections, as well as being supplemented by two films, this book represents a veritable treasure trove of fascinating and richly illustrated information. Not only researchers, physicians and medical historians, but also students and even non-scientists will find History of Allergy a scientific adventure well worth reading.

When I entered the field of allergy in the early 1970s, the standard textbook was a few hundred pages, and the specialty was so compact that texts were often authored entirely by a single individual and were never larger than one volume. Compare this with Allergy Frontiers: Epigenetics, Allergens, and Risk Factors, the present s- volume text with well over 150 contributors from throughout the world. This book captures the explosive growth of our specialty since the single-author textbooks referred to above. The unprecedented format of this work lies in its meticulous attention to detail yet comprehensive scope. For example, great detail is seen in manuscripts dealing with topics such as "Exosomes, naturally occurring minimal antigen presenting units" and "Neuropeptide S receptor 1 (NPSR1), an asthma susceptibility gene." The scope is

exemplified by the unique approach to disease entities normally dealt with in a single chapter in most texts. For example, anaphylaxis, a topic usually confined to one chapter in most textbooks, is given five chapters in *Allergy Frontiers*. This approach allows the text to employ multiple contributors for a single topic, giving the reader the advantage of being introduced to more than one viewpoint regarding a single disease.

This book presents an overview of the pathogenesis of allergic contact dermatitis (ACD). It explains the characterization of T cell subsets which modulate immune reaction to chemicals and may represent a formidable tool for new therapeutic approaches to ACD and other T cell-mediated skin disorders.

Encyclopedic in scope, *Reversibility of Chronic Degenerative Disease and Hypersensitivity, Volume 2: The Effects of Environmental Pollutants on the Organ System* draws deeply from clinical histories of thousands of patients. It focuses on clinical syndromes within the musculoskeletal, gastrointestinal, and respiratory systems. The book explores mechanisms of chemical sensitivity and chronic degenerative disease as well as the triggering agents of musculoskeletal, gastrointestinal, and sino-respiratory diseases. It then discusses triggering agents such as natural gas, pesticides, solvents, and micotoxins. The authors include new data for indoor and outdoor air pollution that harms the chemically sensitive and chronic degenerative diseased patient as well as new data for breath analysis. They also describe the physiology of chemical sensitivity and chronic degenerative diseases, their manifestations, diagnosis, and approaches to reverse dysfunction. The second volume of a five-volume set, the book provides an essential resource for health care providers diagnosing and treating chemical sensitivity and chronic degenerative disease.

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The most concise, clinically relevant, and current review of medical microbiology and immunology *Review of Medical Microbiology and Immunology* is a succinct, high-yield review of the medically important aspects of microbiology and immunology. It covers both the basic and clinical aspects of bacteriology, virology, mycology, parasitology, and immunology and also discusses important infectious diseases using an organ system approach. The book emphasizes the real-world clinical application of microbiology and immunology to infectious diseases and offers a unique mix of narrative text, color images, tables and figures, Q&A, and clinical vignettes.

- Content is valuable to any study objective or learning style
- Essential for USMLE review and medical microbiology coursework
- 650 USMLE-style practice questions test your knowledge and understanding
- 50 clinical cases illustrate the importance of basic science information in clinical diagnosis
- A complete USMLE-style practice exam consisting of 80 questions helps you prepare for the exam
- Pearls impart important basic science information helpful in answering questions on the USMLE
- Concise summaries of medically important organisms
- Self-assessment questions with answers appear at the end of each chapter
- Color images depict clinically important findings, such as infectious disease lesions
- Gram stains of bacteria, electron micrographs of viruses, and microscopic images depict fungi, protozoa, and worms
- Chapters on infectious diseases from an organ system perspective

*Dentine Hypersensitivity: Developing a Person-Centred Approach to Oral Health* provides a detailed and integrated account of interdisciplinary research into dentine

hypersensitivity. The monograph will be of interest to all those working on person centred oral health related research because it provides not only an account of the findings of a series of studies into dentine hypersensitivity drawing on the research traditions of epidemiology, sociology psychology, and dental public health but an integrated study of the benefits of exploring a single oral condition from this range of disciplines. Provides an introduction to Dentine Hypersensitivity, and uses a multidisciplinary approach to detail interdisciplinary research on the subject Outlines the clinical presentation of Dentine Hypersensitivity and the underlying physiological mechanisms Presents a case study of how social and behavioral science can bring new insights into the experience, treatment, and fundamental knowledge of an important dental condition Written by prominent dentists, psychologists, sociologists, and industry scientists working specifically on the topic of Dentine Hypersensitivity and its subsequent research

The clinical approaches to the chronic degenerative diseases that drain our resources, and compromise our well-being, have become almost exclusively symptom-focused. The common wisdom is that they are idiopathic with final outcomes to be managed rather than prevented or cured. That they are potentially reversible rarely enters into any discussion between doctor and patient. A Homeostatic approach to Cure and Prevention for Researchers and Clinicians Working in Toxicology, Immunology, Neurology, and Internal Medicine Reversibility of Chronic Degenerative Disease and Hypersensitivity, a four-part encyclopedia, offers a much different perspective on chronic degenerative disease, one that disputes the idiopathic label attached to most, as well as the usual fatalistic prognosis. The first volume, Regulating Mechanisms of Chemical Sensitivity, demonstrates that one aspect common to chronic diseases is the disruption of systemic and cellular homeostasis. Environmental pollutants play a large role, along with the contributions of genetic and life style factors, in disrupting the self-regulating mechanisms built into our normally adaptive cells. "As dyshomeostasis develops in the nervous system, causes should be found and removed before the metabolic-induced tissue changes take place and cause autonomous, irreversible fixed-named diseases to occur. ...Single and multiple chemicals in various doses either individually and/or in combinations can cause individual or multiorgan dysfunction of the endocrine system. The astute clinician must be aware of these factors in order to help the patient with hypersensitivity and/or chronic degenerative disease." Chapter 2 Drawing on a vast amount of data and clinical cases attended to by the authors in their own medical practices, this volume examines the complex relation that environmental pollution has with chronic degenerative diseases. It considers its impact on the body's vast communication networks and what excessive overload does to homeostatic mechanisms. The authors factor in both general and specific environmental loads and how they alter and trigger genetic and non-genetic responses. Volume 1 begins with an overview of the physiologic basis of homeostasis, exploring various ways that the body deals with toxins and the networks it uses to communicate news of assault and makes provisions for adaptation. The text delves into the connective tissue matrix and considers vascular, neural, endocrine, and immune system responses to a variety of noxious assaults. "Both innate and acquired immunity can be and are altered in individuals with chemical sensitivity and chronic degenerative disease. ...With pollutant overload changes can occur in the lymphatic channels, the lymph nodes, and lymph

node egress as well as the lymphatic cells. Changes in mucosal function and the effects of the autonomic nervous system are evident with environmental pollutant overload." Chapter 3 Written by two very knowledgeable clinicians, it brings together research of the highest caliber and provides extensive discussions involving sophisticated biochemical, endocrine, and neural science. The text provides clinicians with the knowledge to understand the triggering and processes of degenerative diseases, so that they might develop more efficient treatment and prevention plans. The book also supplies the knowledge and perspective that can lead research to more effective treatments. "The ground regulation system consisting of the connective tissue matrix, fibroblast, macrophages, mast cell, leukocyte, end capillary vessel and autonomic nerves, is a global information system for regulating the dynamics of homeostasis in the body. ...One's knowledge of this process must be the guide to move through the onset of early end-stage disease and, eventually, see the manifestations to fixed-named autonomous diseases. It is this knowledge that offers us the greatest potential ... for preventing and reversing early homeostatic dysfunction."

### Chapter 1

This book provides the current state of knowledge of basic mechanisms of adverse drug reactions (ADRs). The main focus is on idiosyncratic drug reactions because they are the most difficult to deal with. It starts with a general description of the major targets for ADRs followed by a description of what are presently believed to be mediators and biochemical pathways involved in idiosyncratic drug reactions. There is also a description of several examples of ADRs that serve to illustrate specific aspects of ADR mechanisms. Eventually the book shows that ultimately better methods are needed to predict which drug candidates are likely to cause ADRs and which patients are at increased risk. But at present research seems to be far from this goal.

Considerable research has been devoted to understanding how positive emotional processes influence our thoughts and behaviors, and the resulting body of work clearly indicates that positive emotion is a vital ingredient in our human quest towards well-being and thriving. Yet the role of positive emotion in psychopathology has been underemphasized, such that comparatively less scientific attention has been devoted to understanding ways in which positive emotions might influence and be influenced by psychological disturbance. Presenting cutting-edge scientific work from an internationally-renowned group of contributors, *The Oxford Handbook of Positive Emotion and Psychopathology* provides unparalleled insight into the role of positive emotions in mental health and illness. The book begins with a comprehensive overview of key psychological processes that link positive emotional experience and psychopathological outcomes. The following section focuses on specific psychological disorders, including depression, anxiety, trauma, bipolar disorder, and schizophrenia, as well as developmental considerations. The third and final section of the Handbook discusses translational implications of this research and how examining populations characterized by positive emotion disturbance enables a better understanding of psychiatric course and risk factors, while simultaneously generating opportunities to bridge gaps between basic science models and psychosocial interventions. With its rich and multi-layered focus, *The Oxford Handbook of Positive Emotion and Psychopathology* will be of interest to researchers, teachers, and students from a range of disciplines, including social psychology, clinical psychology and psychiatry, biological



psychology and health psychology, affective science, and neuroscience.

The variety of chemically diverse pharmacological agents administered to patients is large and continues to expand and with every new drug released, there is always potential for adverse reactions, some of them allergic. With its roots in immunology and pharmacology, the science of drug allergy is becoming better understood and applied as its importance is increasingly recognized throughout the many branches of medicine. *Drug Allergy: Clinical Aspects, Diagnosis, Mechanisms, Structure-Activity Relationships* sheds new light on this field. Comprehensive in design, this authoritative title identifies the most important culprit drugs implicated in immediate and delayed drug hypersensitivities and offers up-to-date information on classifications, diagnoses, underlying mechanisms and structure-activity relationships. Chapters dealing with the molecular and cellular mechanisms of drug hypersensitivities, non-immune-mediated sensitivities and diagnostic methods are presented as introductory material for in-depth treatises on the  $\beta$ -lactam antibiotics, other antibiotics and antimicrobials, drugs used in anesthesia and surgery, opioid analgesics, corticosteroids, monoclonal antibodies and other biologics, drugs used in chemotherapy, proton pump inhibitors, iodinated and gadolinium-based contrast media and non-steroidal anti-inflammatory drugs. In addition to being of immense value to clinicians, other health care professionals and researchers, this title will prove invaluable for those taking undergraduate and graduate courses in science and will also serve as a useful text for students of medicine, pharmacy, nursing and dentistry.

Concern about the environmental consequences of the widespread use of pesticides has increased, and evidence of pesticide-resistant virus vectors have continued to emerge. This volume presents a timely survey of the mechanisms of plant resistance and examines current developments in breeding for resistance, with particular emphasis on advances in genetic engineering which allow for the incorporation of viral genetic material into plants. Discusses the mechanisms of innate resistance in strains of tobacco, tomato, and cowpea; various aspects of induced resistance, including the characterization and roles of the pathogenesis-related proteins; antiviral substances and their comparison with interferon; and cross-protection between plant virus strains. Also presents several papers which evaluate the status of genetic engineering as it relates to breeding resistant plants. Among these are discussions of the potential use of plant viruses as gene vectors, gene coding for viral coat protein, satellite RNA, and antisense RNA, and practical issues such as the durability of resistant crop plants in the field.

*Clinical Paediatric Dietetics, Fifth Edition* continues to provide a very practical approach to dietary management of children with an extensive range of disorders. Thoroughly revised to reflect the most recent scientific and medical literature, this new edition proves to be an indispensable guide for both acute and community-based healthcare professionals. New and expanded content covering a range of disorders, treatments and guidelines has been introduced to the fifth edition, from diabetes technology and the ketogenic diet, to renal tubular disorders, refeeding syndrome, and blended diets in enteral nutrition. This authoritative volume: Supports contemporary evidence-based clinical practice Covers inherited metabolic disorders and diseases of all major organ systems Provides contributions from practising paediatric dietitians, academic research dietitians and a paediatric psychiatrist Includes worked examples, real-world case

studies and easy-to-use tables Produced in collaboration with the British Dietetic Association (BDA) and the BDA Paediatric Specialist Group, Clinical Paediatric Dietetics is an invaluable resource for all healthcare practitioners caring for children. Presents classic and recent findings on immunological dysfunctions caused by food allergies-coordinating the most advanced clinical techniques and assessment methods with practical insights for treatment and patient care.

Here is today's most in-depth reference for any cardiologist, internist, or nephrologist interested in hypertension. Drawing from international experience in cardiology, physiology, and nephrology, Drs. Lip and Hall have assembled a group of section editors and contributors second to none. You'll find the long-term effects of primary and secondary hypertension and a lengthy section on hypertensions for special populations featured prominently. Prevention and treatment of hypertension are covered in detail, from lifestyle and diet issues to drug choice and delivery, and the section on comparison of guidelines is unique to this book. Find comprehensive coverage of hypertension including pathogenesis, prevention, and treatment all in one practical volume. See the complete systemic problems of hypertension at a glance with detailed, full-color illustrations of cellular and clinical manifestations. Simplify navigating the complexities of hypertension using algorithms for clinical exam and diagnosis. Get specific insight into prevention and treatment of hypertension in special populations. Go global with a comprehensive section on worldwide guidelines and the application of clinical material to local standards of practice.

Every aspect of immune function and host defense is dependent upon a proper supply and balance of nutrients. Severe malnutrition can cause significant alteration in immune response, but even subclinical deficits may be associated with an impaired immune response, and an increased risk of infection. Infectious diseases have accounted for more off-duty days during major wars than combat wounds or nonbattle injuries. Combined stressors may reduce the normal ability of soldiers to resist pathogens, increase their susceptibility to biological warfare agents, and reduce the effectiveness of vaccines intended to protect them. There is also a concern with the inappropriate use of dietary supplements. This book, one of a series, examines the impact of various types of stressors and the role of specific dietary nutrients in maintaining immune function of military personnel in the field. It reviews the impact of compromised nutrition status on immune function; the interaction of health, exercise, and stress (both physical and psychological) in immune function; and the role of nutritional supplements and newer biotechnology methods reported to enhance immune function. The first part of the book contains the committee's workshop summary and evaluation of ongoing research by Army scientists on immune status in special forces troops, responses to the Army's questions, conclusions, and recommendations. The rest of the book contains papers contributed by workshop speakers, grouped under such broad topics as an introduction to what is known about immune function, the assessment of immune function, the effect of nutrition, and the relation between the many and varied stresses encountered by military personnel and their effect on health.

Approaches the phenomenon of drug hypersensitivity in a comprehensive manner. Besides epidemiological aspects, it addresses the immunological mechanisms underlying these complicated reactions which go far beyond the IgE-mediated drug allergies also considered in this book. The book also covers clinical manifestations and new diagnostic methods, and introduces some recently established animal models. Many topics are treated from multiple perspectives, and the 33 chapters are thoroughly cross-referenced.

Despite wide recognition as a serious public health problem, anaphylaxis and hypersensitivity reactions remain under-recognized and under-diagnosed. This book fills the gaps in our understanding of the identification of triggers, recognition of clinical presentations, understanding of the natural history of these reactions, and selection of treatment strategies including those focused on cellular and molecular targets. The book provides a detailed examination of disease etiology, pathogenesis, and pathophysiology and their correlation to clinical practice. Forefront knowledge of the mediators and mechanisms of anaphylaxis is covered with an emphasis on how new discoveries shape our current and emerging therapies.

Immunotherapy is an innovative, leading and valuable approach to the treatment and control of many diseases. It can solve many problems of public health worldwide. Many people in numerous countries are suffering from a wide range of diseases (communicable and non-communicable) that can be cured or controlled by the immune system and immunotherapy. Some immunological diseases (i.e. allergic reactions and asthma, autoimmune disease, immunodeficiency disease, hypersensitivity reactions, etc.) have immune response pathophysiology and by controlling immune system mechanisms, these diseases can be controlled and cured. Immunoregulatory Aspects of Immunotherapy focuses on immune system mechanism, diagnosis, treatment and other related problems. The chapters have applicable and scientific data in immunotherapeutic approaches based on medical sciences, and would be of benefit to all researchers in immunology, allergy and asthma fields. The book discusses the prevention, diagnosis, treatment and follow-up of patients who have dangerous diseases. We hope this book will be a new approach to the immunotherapy of diseases and will improve public health and wellbeing.

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