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The Immune Response is a unique reference work covering the basic and clinical principles of immunology in a modern and comprehensive fashion. Written in an engaging conversational style, the book conveys the broad scope and fascinating appeal of immunology. The book is beautifully illustrated with superb figures as well as many full color plates. This extraordinary work will be an invaluable resource for lecturers and graduate students in immunology, as well as a vital reference for research scientists and clinicians studying related areas in the life and medical sciences. Current and thorough 30 chapter reference reviewed by luminaries in the

field Unique 'single voice' ensures consistency of definitions and concepts Comprehensive and elegant illustrations bring key concepts to life Provides historical context to allow fuller understanding of key issues Introductory chapters 1-4 serve as an 'Immunology Primer' before topics are discussed in more detail * Emphasizes both the basic and clinical aspects of immunology that promotes understanding of core concepts and provides clinical correlations to medical practice * Logical progression from normal immune function to laboratory abnormalities and clinical diseases* Problem-oriented approach to clinical disorders caused by immunological disruption Offering unique, comprehensive coverage of both basic science and clinical scenarios, Clinical Immunology: Principles and Practice, 6th Edition, brings you up to date with every aspect of this fast-changing field. It examines the molecular, cellular, and immunologic bases of immunologic diseases and their broader systemic implications; it also includes complete coverage of common and uncommon immunologic disorders. Updated with all the latest immunologic research and clinical implications, including breakthrough immunotherapies and molecular-based treatment protocols, this fully revised edition provides authoritative guidance from some of the most respected global leaders in immunology in one complete, well-illustrated volume. Includes extensive revisions that reflect rapidly expanding research and clinical advances, including breakthrough drug and immunotherapies such as immune checkpoint inhibitors, immunotherapies for cancer, precision medicine, and transfusion medicine. Contains new chapters on COVID-19, immune responses, and the role of the immune system; immunoregulatory deficiencies; immune checkpoints; CAR T cells, including new cellular-based immunotherapy; gene therapy, including CRISPR and gene selection; and a clinically focused chapter on asthma. Provides new genetics content focused on data applications. Addresses notable advances in key areas such as the importance of the microbiota to normal immune system development and to the pathogenesis of immunologic and inflammatory diseases; relationships between the innate and adaptive immune systems; progress in rapid and

cost-effective genomics; cell signaling pathways and the structure of cell-surface molecules; and many more. Covers hot topics such as the role of genetics and genomics in immune response and immunologic disease, atherosclerosis, recurrent fever syndromes, aging and deficiencies of innate immunity, the role of microbiota in normal immune system development and in the pathogenesis of immunologic and inflammatory diseases, and novel therapeutics. Features a user-friendly format with color-coded boxes highlighting critical information on Key Concepts, Clinical Pearls, Clinical Relevance, and Therapeutic Principles. Summarizes promising research and development anticipated over the next 5-10 years with On the Horizon boxes and discussions of translational research. An eBook version is included with purchase. The eBook allows you to access all of the text, figures and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud. Immunity is as old as illness itself, yet historians have only just begun to take up the challenge of reconstructing the modern transformation of attempts to protect against disease. Crafting Immunity assembles in one volume the most recent efforts of an international group of scholars to place the diverse practices of immunity in their historical contexts. It is this diversity that provides the book with its greatest source of strength. Collectively, the papers in this volume suggest that it was the craft-like, small-scale, and local conditions of clinical medicine that turned the immunity of individuals and populations into biomedical objects. That is to say, the modern conception of immunity was at least as much the product of the work of healing as it was the systematic result of discoveries about the immune system. Working outside the narrow confines of laboratory histories, Crafting Immunity is the first attempt to set the problems of immunity into a variety of social, technological, institutional and intellectual contexts. It will appeal not only to historians and sociologists of health, but also to social and cultural historians interested in the biomedical creation of modern health regimens. The perfect balance of theory and practice! Here's the must-have information you need to understand the essential principles of

immunology and to master the serology techniques most commonly used in the laboratory. Easy-to-read, student-friendly coverage focuses on the direct application of theory to clinical laboratory practice, preparing you for the real world in which you will practice. The 4th Edition of this popular text has been completely updated and revised throughout to reflect the latest advances in the field. A brand-new full-color layout makes the content easier to understand than ever before. Offers answers to challenges in clinical immunology. This book contains immunology knowledge and includes a companion web site to give you two ways to find the answers you need. Introducing clinical immunology, this text offers detailed instruction in immunobiology, lab methods and clinical serology, and is divided into three sections, covering the whole scope of clinical immunology. Coverage includes: immune reactions by the human host in response to a challenge; fundamental mechanisms of the immune system; antigens and antibodies and their interaction in serologic testing; the principles of "in vitro" serologic reactions and the sources of error and quality control in testing; and immunologic diseases in which measurement of an immune product or reaction is a significant tool for diagnosing or monitoring the disease. Features new to this edition include: chapter outlines; learning objectives; colour plates; review questions; and case studies. New chapters highlight: nucleic acid probes and blotting techniques; spirochetal infection and serology; Burrelia Burgdorfei infections and serology; and transplantations. Within this one volume both basic science and clinical immunology are demystified for the medical and other health sciences student. The basic immunological processes are described first, with a level of detail restricted to what is appropriate for medical (and similar) curricula. In the second part of the book, immunological mechanisms behind major diseases of the various body systems are explained. Throughout the text clinical details are highlighted and more in-depth material is differentiated from the main text. This seventh edition of Medical Immunology, now in a full-color presentation, continues to provide a succinct clinical review of the human response to infection while being

firmly grounded in science. The authors, distinguished and experienced educators, have been able to anticipate readers' conceptual challenges and use illustrations, diagrams, and algorithms throughout to simplify complex concepts. With an emphasis on clinical applications, methodological advances, immunological diseases, and innovative interventions, this tried and true guide navigates readers through state-of-the-science technologies and demonstrates their implementation in the day-to-day clinical practice of immunology. Key Features Stresses both the basic scientific concepts and clinical correlations to medical practice. Progresses logically from normal immune function to abnormalities and clinical diseases. Reviews the diagnosis, pathogenesis, and management of autoimmune diseases in a concise, manageable and visual manner Continues to be the only current medically-focused immunology text available Provides a succinct review of human response to infection with a focus on diagnostic and clinical immunology Based on Brostoff's Clinical Immunology, this book focuses on the clinical aspects of the subject. Intended for medical students and junior doctors as a quick review of the subject, the book covers the mechanisms behind disease as well as examples of diagnostic tests. Progress in Basic and Clinical Immunology is a result of the 14th European Immunology Meeting - EFIS 2000, held in Poznan, Poland, on 23-27 September 2000. EFIS 2000 gathered over 1400 immunologists from all over the world. It was an exceptionally memorable meeting for a number of reasons: 1) it was held in the last year of the century and the millennium, thus provoking conclusions of past achievements of immunology and projections for the future; 2) it was held in Poland, a country that is a symbol of struggle for freedom for a large number of scientists originating from the 'Eastern Bloc' countries; and 3) EFIS celebrated its 25th anniversary at this occasion. This comprehensive volume contains 62 chapters grouped into 11 sections: T-cells, Immune Receptors, Antigen Presentation/Dendritic Cells, Cytokines, Immunodeficiencies, Autoimmunity, Allergy/Inflammation, Immunotherapy, Vaccines, Tumor Immunology, and Cancer

Immunotherapy. The perfect balance of theory and practice! Here's the must-have information you need to understand the essential principles of immunology and to master the serology techniques most commonly used in the laboratory. Easy-to-read, student-friendly coverage focuses on the direct application of theory to clinical laboratory practice, preparing you for the real world in which you will practice. The 4th Edition of this popular text has been completely updated and revised throughout to reflect the latest advances in the field. A brand-new full-color layout makes the content easier to understand than ever before. An access code inside new printed texts unlocks a wealth of learning tools online at DavisPlus, including a Davis Digital eBook, review questions, laboratory exercises, and animations that make learning and studying easier. See what students and instructors are saying about previous editions... "I just LOVE this book. This book is written WELL! Short chapters and VERY compact!"-- Nadezda Shcherbakova, Student "Great book. Very easy to use."-- Cheryl L Barela, Student "I love the way the book is organized."--Wendy Miller, MS, CLS(NSA), MT(ASCP)SI "I enthusiastically support the author's approach...I think this is a very valuable text..."--Stephen M. Johnson, MS, MT (ASCP) Suitable for medical students, nurses, and laboratory technicians, this volume focuses on clinical problems seen in practice. It includes self-assessment questions and case histories to aid learning and understanding. 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 regular online updates keep you absolutely current. Leading international experts equip you with peerless advice and global best practices to enhance your diagnosis and management of a full range of immunologic problems. A highly clinical focus and an extremely practical organization expedite access

to the answers you need in your daily practice. Cutting-edge coverage of the human genome project, immune-modifier drugs, and many other vital updates keeps you at the forefront of your field. A new organization places scientific and clinical material side by side, to simplify your research and highlight the clinical relevance of the topics covered. A multimedia format allows you to find information conveniently, both inside the exceptionally user-friendly book and at the fully searchable companion web site. Regular updates online ensure that you'll always have the latest knowledge at your fingertips. Includes many new and improved illustrations and four color design. Your purchase entitles you to access the web site until the next edition is published, or until the current edition is no longer offered for sale by Elsevier, whichever occurs first. If the next edition is published less than one year after your purchase, you will be entitled to online access for one year from your date of purchase. Elsevier reserves the right to offer a suitable replacement product (such as a downloadable or CD-ROM-based electronic version) should access to the web site be discontinued. This book begins with basic concepts of immunology and then details the immunological aspects of various disease states involving major organs of the body. Designed as an introduction for practitioners and residents, this book explores how we can better understand disease and its treatment through clinical immunology. This book fills a gap at the interface of fundamental and clinical immunology, and allergy. For many years, experts in fundamental immunology and physicians involved in clinical immunology and allergy worked separately - but the fundamental immunologists did not have medical qualifications and the physicians were not involved in the field of fundamental research. Written by a teacher and an expert in both fields, this book combines current knowledge on basic immunology and immunopathology with clinical comments that complete the whole picture. Immunology is a complex science, which requires a simplified approach in order to be taught and understood effectively. This book is based on the authors' long experience in teaching undergraduate, postgraduate students and interns both basic and clinical immunology.

Reviewing a variety of important components related to the immune system, it is clearly and logically structured, and enriched by figures, tables and boxes with important immunology definitions. Each chapter has its own bibliography, and most units include links to electronic quizzes and audio files to accompany readers step by step. This easy-to-follow volume concludes with suggestions for future study. It is a valuable resource for undergraduate and postgraduate students, as well as medical practitioners. All pathology residents must have a good command of clinical chemistry, toxicology, immunology, and laboratory statistics to be successful pathologists, as well as to pass the American Board of Pathology examination. Clinical chemistry, however, is a topic in which many senior medical students and pathology residents face challenges. Clinical Chemistry, Immunology and Laboratory Quality Control meets this challenge head on with a clear and easy-to-read presentation of core topics and detailed case studies that illustrate the application of clinical chemistry knowledge to everyday patient care. This basic primer offers practical examples of how things function in the pathology clinic as well as useful lists, sample questions, and a bullet-point format ideal for quick pre-Board review. While larger textbooks in clinical chemistry provide highly detailed information regarding instrumentation and statistics, this may be too much information for students, residents, and clinicians. This book is designed to educate senior medical students, residents, and fellows, and to "refresh" the knowledge base of practicing clinicians on how tests are performed in their laboratories (i.e., method principles, interferences, and limitations). Takes a practical and easy-to-read approach to understanding clinical chemistry and toxicology Covers all important clinical information found in larger textbooks in a more succinct and easy-to-understand manner Covers essential concepts in instrumentation and statistics in such a way that fellows and clinicians understand the methods without having to become specialists in the field Includes chapters on drug-herb interaction and pharmacogenomics, topics not covered by textbooks in the field of clinical chemistry or laboratory medicine Clinical Immunology not

only introduces the reader to the human immune system, it also covers immunology from clinical manifestation to therapeutic approaches in a wide range of conditions. Each chapter describes an introduction, the clinical manifestations, the immunopathogenesis, diagnosis, lab tests and therapeutic approaches. The book guides clinicians, researchers and students to a better understanding of the matters of immunologic-based diseases that can lead to better decision-making for patients. Because of the growing knowledge regarding the function of immune system in 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 Essentials of Clinical Immunology provides the most up-to-date, core information required to understand diseases with an immunological basis. Clinically focussed, the sixth edition of this classic text presents theoretical and practical information in a simple yet thorough way. Essentials of Clinical Immunology covers the underlying pathophysiology, the signs and symptoms of disease, the investigations required and guidance on the management of patients. Perfect for clinical medical students, junior doctors and medical professionals seeking a refresher in the role of immunology in clinical medicine, this comprehensive text features fully updated clinical information, boxes with key points, real-life case histories to illustrate key concepts and an index of contents at the start of each chapter. A companion website at www.immunologyclinic.com provides additional

learning tools, including more case studies, interactive multiple-choice questions and answers, all of the photographs and illustrations from the book, links to useful websites, and a selection of review articles from the journal *Clinical and Experimental Immunology*. This title is also available as a mobile App from MedHand Mobile Libraries. Buy it now from iTunes, Google Play or the MedHand Store. This complete, up-to-date introduction to immunology takes students from basic vocabulary through common immunoassays to closer consideration of the specific diseases that require immunologic methods of diagnosis. **CLINICAL IMMUNOLOGY AND SEROLOGY** presents today's newest professional techniques, thoroughly preparing students to work in modern clinical immunology laboratories, understand the data generated there, and apply the conclusions to deliver superior patient care. Full-color charts and illustrations engage students and enhance comprehension, and the text's content has been extensively classroom-tested. It contains the most up-to-date information to accurately reflect what is done in the clinical immunology laboratory. Every chapter contains review and critical thinking questions, as well as a detailed case study. Immunology is acquiring an increasing role in today's medical practice because a large and increasing number of patients suffer from the wide variety of allergic diseases. In addition, the AIDS epidemic not only threatens an ever-widening range of people, but it also emphasizes the important role of a functioning immune system in maintaining health. During the 13th ICACI, distinguished scientists and physicians discussed a wide variety of new developments in the fields of allergy and immunology and their practical applications. This volume contains over 100 concise and readable reports, representing a broad review of recent results in the fields of allergology and clinical immunology. *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. Volumes 1 and 2 in this series are focused on current issues in basic medical science, subjects that are fundamental to the practice of medicine. These basic medical science subjects are traditionally taught in the first two years of medical school that precede clinical instruction and training. This text is geared for readers with little or no experience in immunology or clinical medicine, and provides an understanding of what the immune system does, how it protects the body, and how immunologic principles apply to an ever-increasing array of laboratory tests. This second edition of a bestseller details the manifestations, diagnosis and treatment of immune-related disease in the dog and cat. It is illustrated throughout in full color, to show and explain to the reader as clearly as possible the complicated principles of disease and immunodiagnostic tests, supported by clinical cases, gross and

histopathology, cytology, hematology, immunohistochemistry and other immunological tests. Introduces new material that reflects the significant advances and developments in the field of clinical laboratory immunology. • Provides a comprehensive and practical approach to the procedures underlying clinical immunology testing. • Emphasizes molecular techniques used in the field of laboratory immunology. • Updates existing chapters and adds significant new material detailing molecular techniques used in the field. • Presents guidelines for selecting the best procedures for specific situations and discusses alternative procedures. • Covers aspects of immunology related disciplines such as allergy, autoimmune diseases, cancers, and transplantation immunology. CHAPEL AND HAENEY'S ESSENTIALS OF CLINICAL IMMUNOLOGY The Essentials are an international, best-selling series of textbooks, all of which are designed to support lecture series or themes on core topics within the health sciences. See www.wiley.com for further details. The fully updated new edition of the classic textbook, introducing the pathophysiology and management of immunological disorders Chapel and Haeney's Essentials of Clinical Immunology contains the knowledge necessary to understand the diagnosis and treatment of immunological disorders. With easy-to-read text and a wealth of colour clinical images and diagrams, this well-regarded textbook introduces complex concepts using effective pedagogical tools such as bulleted lists, key point boxes, real-life case studies, practical examples, figures and tables, chapter introductions, and keywords in bold integrated in each chapter. Fully updated throughout, the seventh edition provides up-to-date coverage of the clinical relevance that immunology has in medicine. These new and revised sections examine current research trends, the implementation of automation in laboratories, the emerging field of neuro-psychiatric disorders such as NMDA receptor encephalitis and more. This edition includes new end-of-chapter summaries, updated clinical information, additional real-life case histories illustrating key concepts, and linking immunological testing to diseases. The new edition also includes: Covers the investigations

required for diagnosis of immunological disorders and for management of patients
Describes what occurs when diagnosing conditions in real-world laboratories
Features case studies highlighting the connections between immunological theory and clinical cases
Includes an updated companion website that features: case studies, interactive questions, photographs, illustrations, web links and review articles from the journal *Clinical and Experimental Immunology*
Chapel and Haeney's *Essentials of Clinical Immunology* is an ideal resource for clinical medical students, junior doctors, medical residents and other medical professionals who are looking to expand or refresh their knowledge in clinical immunology, as well as being an excellent introductory textbook for undergraduate courses in the subject. For more information on the complete range of Wiley medical student and junior doctor publishing, please visit: www.wiley.com To receive automatic updates on Wiley books and journals, join our email list. Sign up today at www.wiley.com/email All content reviewed by students for students
Wiley Medical Education books are designed exactly for their intended audience. All of our books are developed in collaboration with students. This means that our books are always published with you, the student, in mind
If you would like to be one of our student reviewers, go to www.reviewmedicalbooks.com to find out more. This title is also available as an e-book. For more details, please see www.wiley.com/buy/9781119542384
Offering unique, comprehensive coverage of both basic science and clinical scenarios, *Clinical Immunology: Principles and Practice*, 6th Edition, brings you up to date with every aspect of this fast-changing field. It examines the molecular, cellular, and immunologic bases of immunologic diseases and their broader systemic implications; it also includes complete coverage of common and uncommon immunologic disorders. Updated with all the latest immunologic research and clinical implications, including breakthrough immunotherapies and molecular-based treatment protocols, this fully revised edition provides authoritative guidance from some of the most respected global leaders in

immunology in one complete, well-illustrated volume. Includes extensive revisions that reflect rapidly expanding research and clinical advances, including breakthrough drug and immunotherapies such as immune checkpoint inhibitors, immunotherapies for cancer, precision medicine, and transfusion medicine. Contains new chapters on COVID-19, immune responses, and the role of the immune system; immunoregulatory deficiencies; immune checkpoints; CAR T cells, including new cellular-based immunotherapy; gene therapy, including CRISPR and gene selection; and a clinically focused chapter on asthma. Provides new genetics content focused on data applications. Addresses notable advances in key areas such as the importance of the microbiota to normal immune system development and to the pathogenesis of immunologic and inflammatory diseases; relationships between the innate and adaptive immune systems; progress in rapid and cost-effective genomics; cell signaling pathways and the structure of cell-surface molecules; and many more. Covers hot topics such as the role of genetics and genomics in immune response and immunologic disease, atherosclerosis, recurrent fever syndromes, aging and deficiencies of innate immunity, the role of microbiota in normal immune system development and in the pathogenesis of immunologic and inflammatory diseases, and novel therapeutics. Features a user-friendly format with color-coded boxes highlighting critical information on Key Concepts, Clinical Pearls, Clinical Relevance, and Therapeutic Principles. Summarizes promising research and development anticipated over the next 5–10 years with "On the Horizon" boxes and discussions of translational research. Immunofluorescence, a suitable laboratory method for the microscopic demonstration of antigens and antibodies in biological materials, useable, for example, to provide evidence for the pathogenesis of disease in histological or cytological preparations and for tumour cell differentiation. For this reason immunofluorescence has a decisive role as the method of choice for the diagnosis of auto-immune diseases. This primer on immunofluorescence techniques, which first appeared in 1979, is a richly illustrated handbook suitable for everyday practical work in

the laboratory, useable as both an introduction to the subject as well as an atlas. In hardly any other area of medicine are there so many new findings to report. The second edition of this book is concerned not only with the detection methods which now form an essential and established part of diagnostic techniques, but also with the most recent research results such as the discovery of antibodies against Auerbach's plexus and against podocytes... The Oxford Handbook of Clinical Immunology and Allergy is a unique, practical and clinically relevant guide to assist with the diagnosis and management of immunological/allergic disease, and the correct selection and interpretation of immunological tests. This new edition of Clinical Immunology and Allergy is a practical and clinically based guide for clinicians and laboratory staff to aid diagnosis and management of immunological and allergic disease, and provides examples of the correct selection and interpretation of immunological tests for a wide range of conditions. Fully updated from the previous edition, with the addition of new diseases recently identified from the use of genetic testing, and novel biological therapies and autoantibody tests, this title covers the entire breadth of the field, with the information at your fingertips. Split into two sections, the first covering individual diseases and allergies, with diagnosis and management strategies, and the second describing appropriate laboratory tests and their interpretation, the Oxford Handbook of Clinical Immunology and Allergy is an invaluable reference text, and works as a succinct revision guide for the FRCPath in Immunology. Filled with cross-references to create a cohesive overview of a complex subject, and presented in concise bullet-points for detailed direction to the key facts, this handbook provides everything you need to help you in clinical practice. The network of biological processes which protect an organism from diseases is termed as the immune system. The branch of medicine which deals with the study of the diseases which are caused by problems in the immune system is known as clinical immunology. It encompasses the failure, divergent action, and malignant growth of the cellular components of the immune system. The diseases studied within this field can be

classified into immunodeficiency and autoimmunity. Immunodeficiency involves the immune system being unable to provide adequate response. Autoimmunity refers to the situation wherein the immune system attacks the body of the host. The book aims to shed light on some of the unexplored aspects of clinical immunology and the recent researches in this field. It elucidates the concepts and innovative models through a case based approach. Those with an interest in this field would find this book helpful. Equine Clinical Immunology offers comprehensive information on equine immunological disorders. • Provides a complete, equine-specific reference on clinical immunology • Focuses on clinically relevant information for the diagnosis and treatment of horses with immune disorders • Illustrates the concepts discussed using drawings, photographs, and tables • Presents key concepts, clinical assessment information, and treatment approaches in text boxes for ease of use • Offers a practical, clinically oriented approach ideal for equine specialists Case Studies in Immunology, Seventh Edition is intended for medical students and undergraduate and graduate students in immunology. It presents major topics of immunology through a selection of clinical cases that reinforce and extend the basic science. Each case history is preceded by essential scientific facts about the immunological mechanisms of that specific disorder. The cases themselves demonstrate how immunological problems are deconstructed in the clinic and each one is followed by a concise summary of the clinical finding and questions which can serve as discussion points. The book includes a total of 55 cases and can be used as either a standalone text, review aid, or as a companion to Janeway's Immunobiology, Ninth Edition and The Immune System, Fourth Edition. Keep abreast of the latest advances in this complex field with the 5th Edition of Clinical Immunology: Principles and Practice. This substantially revised edition by Drs. Robert R. Rich, Thomas A. Fleisher, William T. Shearer, Harry W. Schroeder, Jr., Anthony J. Frew, and Cornelia M. Weyand, offers authoritative guidance from some of the most respected global leaders in immunology, helping you navigate today's latest knowledge and evidence-

based practices that result in improved patient care. This trusted resource features sweeping content updates, rewritten chapters, a highly clinical perspective, and an easy-to-use organization designed to enhance your diagnosis and management skills in daily practice. Includes new chapters on the Microbiota in Immunity and Inflammation, Immune Responses to Fungi, and Genetics and Genomics of Immune Response. Features extensive revisions to many chapters, including the Major Histocompatibility Complex, Multiple Sclerosis, Diabetes and Related Autoimmune Diseases, Biologic Modifiers of Inflammation and Tumor Immunotherapy. Covers hot topics such as the role of genetics and genomics in immune response and immunologic disease, atherosclerosis, recurrent fever syndromes,

aging and deficiencies of innate immunity, the role of microbiota in normal immune system development and the pathogenesis of immunologic and inflammatory diseases, and novel therapeutics. Addresses notable advances in key areas such as the importance of the microbiota to normal immune system development and to the pathogenesis of immunologic and inflammatory diseases; relationships between the innate and adaptive immune systems; progress in rapid and cost-effective genomics; cell signaling pathways and the structure of cell-surface molecules; and many more. Summarizes promising research and development anticipated over the next 5-10 years with "On the Horizon" boxes and discussion of translational research.

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