

Basic And Clinical Immunology

Previously published as: The Immunological basis of surgical science and practice, 1992.

Meticulously reviewed and updated for today's medical students, Basic Immunology, 6th Edition, is a concise text expertly written by the same distinguished author team as the best-selling, comprehensive text, Cellular and Molecular Immunology. This focused, easy-to-understand volume uses full-color illustrations and clinical images, useful tables, and practical features such as Summary Point boxes, end-of-chapter review questions, glossary terms, and clinical cases—all designed to help students master this complex topic in the most efficient, effective manner possible. Emphasizes clinical aspects of immunology, including disease pathogenesis, the development of novel therapies based on basic science, and an appendix of clinical cases for real-world application. Provides top-notch instruction from experienced teachers, course directors, and lecturers led by well-known editor and author Dr. Abul Abbas. Features a highly readable writing style and practical organization, now with fully revised content and updated images to reflect recent important advances in today's understanding of the immune system. Presents information in a format and style that maximizes usefulness to students and teachers studying medicine, allied health fields, and biology. Contains numerous features designed to help students understand key immunologic concepts: high-quality illustrations, practical tables, chapter outlines, bolded key points, and focus questions in every chapter for self-assessment and review. Evolve Instructor site with a downloadable image bank is available to instructors through their Elsevier sales rep or via request at: <https://evolve.elsevier.com>

This concise and dynamic textbook takes the student through the complex concepts in immunology with the help of clear and explanatory artworks and a range of extensive clinical cases.

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.

Building on the strengths of the first edition, the newly titled and expanded second edition remains a concise introduction to the fundamentals of immunology, with an expert synthesis of basic and clinical information., Augmented by color illustrations, and with increased emphasis on the molecular and genetic underpinnings of cellular phenomena, Textbook of Immunology covers the physiology of the immune system, disease entities related to immune system dysfunction, and the underlying pathophysiologic mechanisms of dysfunction. In response to advancing knowledge that influences the approach to presenting basic immunology, new chapters have been added on cytokines; host defense (non-specific immunity and specific immune responses); the aging immune system; and the pathophysiology, diagnosis, prevention, and therapy of AIDS., This book keeps pace with the explosion of information and data in immunology, and adeptly refines, organizes, and presents this body of knowledge to serve as a succinct introduction to modern immunologic concepts for medical students, and as an update and refresher in the basics for researchers and clinicians.

The focus of this text is on the human immunology required by students to understand and treat common immunological diseases - animal research is included only where essential for an understanding of the subject.

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 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.

THE authoritative guide for clinical laboratory immunology For over 40 years the Manual of Molecular and Clinical Laboratory Immunology has served as the premier guide for the clinical immunology laboratory. From basic serology testing to the present wide range of molecular analyses, the Manual has reflected the exponential growth in the field of immunology over the past decades. This eighth edition reflects the latest advances and developments in the diagnosis and treatment of patients with infectious and immune-mediated disorders. The Manual features detailed descriptions of general and specific methodologies, placing special focus on the interpretation of laboratory findings, and covers the immunology of infectious diseases, including specific pathogens, as well as the full range of autoimmune and immunodeficiency diseases, cancer, and transplantation. Written to guide the laboratory director, the Manual will also appeal to other laboratory scientists, especially those working in clinical immunology laboratories, and pathologists. It is also a useful reference for physicians, mid-level providers, medical students, and allied health students with an interest in the role that immunology plays in the clinical laboratory.

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.

These proceedings contain selected contributions from the participants to the Fourth International Symposium on Dendritic cells that was held in Venice (Lido) Italy, from October 5 to 10, 1996. The symposium was attended by more than 500 scientists coming from 24 different countries. Studies on dendritic cells (DC) have been greatly hampered by the difficulties in preparing sufficient cell numbers and in a reasonable pure form. At this meeting it has been shown that large quantities of DC can be generated from precursors in both mice and humans, and this possibility has enormously encouraged studies aimed to characterize DC physiology and DC-specific genes, and to employ DC therapeutically as adjuvants for immunization. The possibility of generating large numbers of autologous DC that can be used in the manipulation of the immune response against cancer and infectious diseases has tremendously boosted dendritic cell research and the role of DC in a number of medical areas has been heatedly discussed.

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.

Here's the practical introduction you need to understand the essential theoretical principles of clinical immunology and the serological and molecular techniques commonly used in the laboratory. You'll begin with an introduction to the immune system; then explore basic immunologic procedures; examine immune disorders; and study the serological and molecular diagnosis of infectious disease. An easy-to-read, student-friendly approach emphasizes the direct application of theory to clinical laboratory practice. Each chapter is a complete learning module with learning outcomes, chapter outlines, theoretical principles, illustrations, and definitions of relevant terminology. Review questions and case studies help you assess your mastery of the material. A glossary at the end of the book puts must-know information at your fingertips.

A classic text/reference. Last revised in 1984.

Basic and Clinical Immunology E-Book Elsevier Health Sciences

Immunology in the Twentieth Century: From Basic Science to Clinical Application grew out of common knowledge that those who survived many of the common infectious diseases rarely contracted the same disease again. This book charts the historical development of this vital branch of medicine in a concise volume, covering both the basic science involved and the clinical applications. Immunology as a distinctive subject developed in the mid-twentieth century as researchers started to understand how the adaptive immune system aids the defense against pathogens. The subject has grown in importance and diversified into specialist fields, such as immunohistochemistry, immunogenetics and immunopathology. Provides a concise overview of the history of immunology and its applications in medicine Includes a discussion of the scientists who were pioneers in landmark discoveries in immunology Summarizes the clinical applications of major discoveries

Immunology: A Short Course, 7th Edition introduces all the critical topics of modern immunology in a clear and succinct yet comprehensive fashion. The authors offer uniquely-balanced coverage of classical and contemporary approaches and basic and clinical aspects. The strength of Immunology: A Short Course is in providing a complete review of modern immunology without the burden of excessive data or theoretical discussions. Each chapter is divided into short, self-contained units that address key topics, illustrated by uniformly drawn, full-color illustrations and photographs. This new edition of Immunology: A Short Course: • Has been fully revised and updated, with a brand new art program to help reinforce learning • Includes a new chapter on Innate Immunity to reflect the growth in knowledge in this area • Highlights important therapeutic successes resulting from targeted antibody therapies • Includes end of chapter summaries and review questions, a companion website at www.wileyimmunology.com/coico featuring interactive flashcards, USMLE-style interactive MCQs, figures as PowerPoint slides, and case-based material to help understand clinical applications

Translational Immunology: Mechanisms and Pharmacologic Approaches highlights and summarizes the most important advances in human immunology, clinical translations, new tools to analyze therapeutic targets, and new pharmacological approaches for autoimmunity, inflammatory disorders, and cancer. The book is an essential resource for those seeking to understand the potential translational applications of burgeoning studies in human immunology, helping readers make sense of the existing and emerging scientific advances. The book grounds fundamental science in the translational realm, providing insights from world renowned researchers at the top of their game in their respective fields, in both industry and academic settings. Readers will gain an understanding of the rationale and mechanisms underlying current and emerging pharmacologic approaches for interventional immunology, the gaps therein, and new ideas for better and safer therapeutic approaches, and physicians will glean information about pharmacological limitations in altering disease progression and complications. This reference on the translational realization of the burgeoning findings in immunology provides a go-to reference for experienced professional clinicians, researchers, industry scientists, and those seeking more information on the field. Delivers comprehensive coverage of seminal human immunology discoveries and the resulting impact on therapeutic strategies Presents potential novel targets and approaches for clinical applications in organ specific and systemic autoimmunity, transplant rejection, cancer, and vaccine development Discusses lessons learned from successful and failed clinical trials with specific interventions, including pharmacological issues and limitations, and complications due to immunosuppression Provides information on new strategies and outstanding issues that should be addressed in future research

A brief overview of the basic science and clinical aspects of immunology. The basic science section is a clear presentation of innate and adaptive immunity, immune cells, antibodies and antigens, and other components of the immune system and their interactions. The clinical section clarifies hypersensitivity, autoimmunity, immunodeficiency, common diagnostic tests, vaccination, transplantation, and tumor immunology.

Fundamental Immunology Seventh Edition This standard-setting textbook has defined the field of immunology since 1984, and is now in its Seventh Edition continuing to deliver the detailed, authoritative, and timely coverage readers expect. This comprehensive, up-to-date text is ideal for graduate students, post-doctoral fellows, basic and clinical immunologists, microbiologists and infectious disease physicians, and any physician treating diseases in which immunologic mechanisms play a role. Now full-color throughout the book's fully revised and updated content reflects the latest advances in the field. Current insights enhance readers' understanding of immune system function. The text's unique approach bridges the gap between basic immunology and the disease process. Extensive coverage of molecular biology explains the molecular dynamics underlying immune disorders and their treatment. Abundant illustrations and tables deliver essential information at a glance. Plus a convenient companion website features the fully searchable text with all references linked to PubMed. Look inside and discover... * Fully revised and updated content reflects the latest advances in the field. * Current insights enhance readers' understanding of immune system function * Unique approach bridges the gap between basic immunology and the disease process. * Extensive coverage of molecular biology explains the molecular dynamics underlying immune disorders and their treatment. * Abundant illustrations and tables deliver essential information at a glance. PLUS... A convenient companion website features the fully searchable text with all references linked to PubMed. Pick up your copy today!

This book reviews the role of each cell subset in the skin, providing the basics for understanding skin immunology and the mechanisms of skin diseases. The skin is one of the immune organs and is continually exposed to foreign antigens and external stimuli that must be monitored and characterized for possible elimination. Upon exposure to foreign antigens, the skin can elicit a variety of immune responses in harmony with skin components that include keratinocytes, dendritic cell subsets, mast cells, basophils, fibroblasts, macrophages, gamma-delta T cells, neutrophils, myeloid-derived

suppressor cells, vascular and lymphatic cells, hair follicles, platelets, and adipose tissues, among others. In the past 10 years, knowledge of immunology has expanded drastically in areas such as innate immunity (Toll-like receptors, C-type lectins), and host defenses to bacteria and viruses, and this increased knowledge has led to the development of more effective treatment of psoriasis and other skin diseases. This book provides updates on the mechanisms of skin diseases including contact dermatitis, atopic dermatitis, psoriasis, urticaria, drug eruption, bullous diseases, anaphylaxis, graft-versus-host disease, rosacea, lymphoma, photodermatology, and collagen vascular diseases. Understanding the basics of skin immunology will help clinicians and dermatologists use new therapeutics such as biologics efficiently. Serving as an intermediary between basic science and clinical medicine, this book gives readers the opportunity to understand and marvel at the mystery and fascination of skin immunology.

Introductory Immunology quickly acquaints readers with natural immune responses manifesting in diseases and disorders. The book presents a complete picture of natural defenses to infectious agents, as well as the mechanisms that lead to autoimmune dysfunction. In addition, it examines immunologically based diseases, giving the reader sufficient knowledge to make sound clinical decisions leading to better treatment outcomes. Introductory Immunology is aimed at researchers, postgraduates, or any scientifically inclined reader interested in immunology. No prior expertise in medical, biochemical, or cellular science is needed to benefit from the clear presentation of immunology concepts in this book.

Quick, concise introduction to immunological concepts Breaks down all of immunology into manageable, logically digestible building blocks Geared toward readers without medical, biochemical, or cellular expertise

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

These Proceedings contain the contributions of the participants of the Second International Symposium on Dendritic Cells that was held from the 1st to 25th of June 1992 in Amsterdam, the Netherlands. The First International Symposium on Dendritic Cells was organized as a Satellite symposium at the occasion of the 30th anniversary of the Japanese Reticuloendothelial Society by Dr. Y. Imai in Yamagata (Japan), in 1990. It was entitled "Dendritic Cells in Lymphoid Tissues," and focused primarily on the Interdigitating Cells (IDC), Epidermal Langerhans cells (LC) and Follicular Dendritic Cells (FDC) , from the point of view of human pathology. However, the concept of Dendritic Cell System, comprising the bone marrow derived IDC and LC but not the FDC, was based on animal experiments and mainly on in vitro experiments on isolated cells. In a report from the Reticuloendothelial Society Committee on Nomenclature in 1982, Tew, Thorbecke and Steinman had already characterized these different types of DC, but the gap between in vivo and in vitro function remained. In Amsterdam, the Symposium focused on the Role of Dendritic Cells in Fundamental and Clinical Immunology. First, recent developments in molecular biology of antigen presentation and cell biological aspects of signal transduction were discussed, in relation to the potential of DC to stimulate lymphocytes and to trigger their in vitro differentiation.

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.

Reproductive Immunology: Basic Concepts gives a holistic insight into the understanding of the complex interactions between the maternal immune system and the fetal/placental unit necessary for the success of pregnancy. This interaction is critical for the support of the human fetal semiallograft and the protection against infections. The book covers various topics such as B cells, macrophages, T cells, discussion on fetal signals and their impact on maternal reproductive cells such as endometrial cells, mast cells, and the role of fetal Hofbauer cells, the immune regulatory role of glucocorticoids, and many other novel topics within the field of reproductive immunology. Edited and written by experts in the field, this book introduces the up-to-date knowledge of the role of the immune system during pregnancy and provides the necessary background to understand pregnancy complications associated with alterations in the functioning of the immune system. The book provides a complete discussion on the immunological aspects of pregnancy and serves as a great tool for research scientists, students, reproductive immunologists and OBGYNs. Shows the detailed evaluation of the knowledge related to each immune cell type in the pregnant and not pregnant uterus Evaluates each immune cell type and its function during specific reproductive events Provides the biological background for understanding the clinical aspects that will be discussed in subsequent volumes in the series

This up-to-date immunology textbook provides a clear and simple introduction to clinical and laboratory immunology for health professionals in training or in practice. It covers: essential basic immunology clinical immunology laboratory investigations of immunological disorders treatments used in immunological disorders. Focusing on clinical problems seen in practice and including self-assessment questions and case histories to aid learning and understanding, this is an invaluable resource for all medical students, nurses, nutritionists, pharmacists and physiotherapists.

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