



Cytokines And Autoimmune Disease

Richard Coico



Cytokines And Autoimmune Disease:

Cytokines and Autoimmune Diseases Vijay K. Kuchroo, Nora Sarvetnick, David A. Hafler, Lindsay B. Nicholson, 2001-11-09 Leading researchers synthesize scattered experimental data to help develop an intimate understanding of how cytokines and chemokines are involved in the pathogenesis of autoimmune diseases The many chapters offer critical reviews the basic mechanisms controlling cytokine induction and regulation as well as the resulting production of proinflammatory and anti inflammatory cytokines the former of which induces organ specific autoimmune diseases From the vantage of these insights they address the role of cytokines in a wide variety of autoimmune diseases uveitis encephalomyelitis multiple sclerosis human type 1 diabetes rheumatoid arthritis SLE and myasthenia gravis Authoritative and state of the art Cytokines and Autoimmune Disease highlights the enormous therapeutic potential of cytokine modulation in the treatment of autoimmune disease

Cytokines and Chemokines in Autoimmune Disease Pere Santamaria, 2003-01-31 This book attempts to capture recent knowledge on the role of cytokines and chemokines in autoimmunity by focusing on some of the most prevalent organ specific or systemic autoimmune disorders After beginning chapters on the function and structure of cytokines and chemokines sections cover their genetics and mechanisms of action in the context of autoimmunity and the role of different cytokines and chemokines in various autoimmune disorders Santamaria teaches in the Department of Microbiology and Infectious Diseases at the University of Calgary Canada

Modulating Cytokines as Treatment for Autoimmune Diseases and Cancer Erwan Mortier, Averil Ma, Barbara A. Malynn, Markus Neurath, 2020-12-11 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

Cytokines in Autoimmunity Fionula M. Brennan, Marc Feldmann, 1996-01-01 This book documents the current state of knowledge concerning cytokines in the pathogenesis of the spectrum of human autoimmune diseases Where appropriate animal models of autoimmune diseases are included for comparison This field has progressed so rapidly that it can no longer be mastered by a single group hence this multi authored compendium Cytokines are now widely acknowledged to be important targets for disease intervention as demonstrated by the success of anti TNF α antibody therapy in the treatment of rheumatoid arthritis

Cytokines as Potential Therapeutic Targets for Inflammatory Skin Diseases R. Numerof, Charles A. Dinarello, Khusru Asadullah, 2007-01-19 Cytokines and cytokine receptors remain an area of great interest for the development of targeted therapies for cutaneous inflammatory diseases Anti TNF therapeutics have proven to be effective in the treatment of psoriasis and clinical investigations have now begun for other cytokine directed therapies

such as those targeting IFN γ IL 12p40 and IL 18 In addition to therapeutics that target cytokines directly strategies that target cytokine signaling pathways are in development This book summarizes the findings of the 56th International Workshop of the Ernst Schering Research Foundation that focused on Cytokines as Potential Therapeutic Targets for Inflammatory Skin Diseases Clinical Applications of Cytokines Joost J. Oppenheim, Jeffrey L. Rossio, A. J. H. Gearing, 1993 The driving force for research on cytokines has always been their clinical promise Their biological properties suggested a key role in hematopoiesis immunity tumor genesis hemostasis vascularization repair of connective tissues and integration of the immune system with the neuroendocrine system Animal studies have shown that cytokines could be used as effective biotherapeutics with easily manageable and reversible toxicities Clinical trials have confirmed these findings culminating in the licensing of a number of the cytokines such as interferon alpha interferon gamma interleukin 2 erythropoietin granulocyte colony stimulating factor and granulocyte macrophage colony stimulating factor Many other cytokines are in clinical trials This is the first comprehensive volume on the cytokines written primarily from a medical perspective After presenting background information about the structure production assays and systemic effects of cytokines and their receptors it is organized around diseases and organ systems Infectious diseases autoimmunity immunodeficiency states defective hematopoiesis allergies injury repair cancer vascular and skin diseases and neurological disorders are all covered This work reviews the role that cytokines play in the pathogenesis diagnosis and therapy of each disease The authors assess both the current state of the art and the potential for future applications **Cytokines and Cytokine Receptors**

Constantin A. Bona, Jean-Pierre Revillard, 2003-09-02 The field of cytokine research is expanding at a rapid pace Contributions from the major leading groups in the world on the structure and biological properties of cytokine and cytokine receptors as well as integrated reviews on cytokines in various physiological and pathological conditions were presented in three issues of International Reviews of Immunology This collection of articles provided a unique source of information However important discoveries are emerging very rapidly and some of the reviews written in 1997 are already outdated In this book the editors assemble reviews that have been updated by their authors to include all the recent publications and unpublished data from the authors laboratories This volume should serve as an excellent reference source for all those concerned by the multiple faces of cytokines in basic research and in the clinic **Autoimmunity** Andras Perl, 2008-02-01 Research is to see what everybody else has seen and to think what nobody else has thought Albert Szentgyrgyi Autoimmunity Methods and Protocols is intended to serve as a ready to use guide to establish and interrogate human and animal models of autoimmune diseases The first chapter Pathogenesis and Spectrum of Autoimmunity discusses major hypotheses driving this most tantalizing area of research since Paul Ehrlich proposed the concept of autoimmunity in 1900 Considering the great diversity and ever changing spectrum of autoimmunity it has not been possible to include models and experimental protocols for each known disorder Rather several chapters have been devoted to the most prevalent and

complex diseases such as rheumatoid arthritis systemic lupus erythematosus insulin dependent diabetes mellitus and multiple sclerosis The chapters are contributed by laboratories actively using the models presented Each chapter contains an introductory section that discusses the relevance of the model for a particular disease and for autoimmunity in general Part I contains methods and protocols to assess immunological and biochemical pathways relevant for disease pathogenesis Chapters in this section focus on methods to identify susceptibility genes intercellular signaling via cytokines intracellular signaling through the T cell receptor and signal processing via protein kinases identification and enumeration of autoantigen specific T cells and autoantibodies and the dysregulation of apoptosis and its role in modification of self antigens Part II contains protocols to establish and assess inflammatory arthritis systemic lupus erythematosus myocarditis thyroiditis experimental autoimmune encephalomyelitis insulin dependent diabetes mellitus scleroderma uveitis and vitiligo

The Heart in Systemic Autoimmune Diseases Andrea Dorea, 2004-01-20 This first volume represents the state of the art in the field of cardiovascular disease and autoimmune rheumatic diseases Systemic autoimmune diseases comprise a family of conditions that share common pathogenetic mechanisms as well as a multi organ involvement including the heart This volume has been subdivided into three parts In the first part the immune mechanisms involved in cardiac damage have been considered The role of proinflammatory and regulatory cytokines in driving an autoimmune response to cardiac self tissues has been analysed Moreover the prevalence the clinical meaning and the hypothetical pathogenicity of a broad spectrum of organ and non organ specific autoantibodies have been discussed in detail In the second part of the volume the role of humoral and innate immunity in promoting the development of atherosclerotic plaque has been extensively reviewed along with the newly discovered anti inflammatory properties of statins These two parts of the volume deal with exciting aspects of this topic suggesting a very close connection between heart diseases and immunology Finally in the third part the cardiac manifestations observed in the major systemic autoimmune conditions have been comprehensively examined This book yields an impressive body of well ordered information highlighting key references and summarising the experience of a selected panel of distinguished physician scientists actively involved in the field of cardiovascular disease and systemic autoimmunity

The Autoimmune Diseases M. Eric Gershwin, George C. Tsokos, 2013-12-03 Since publication of the 4th Edition of *The Autoimmune Diseases* in 2006 the understanding of the immune mechanisms underlying autoimmunity and autoimmune disease has significantly deepened and broadened This fully revised 5th Edition incorporates new material and combines common themes underlying inductive and effector mechanisms and therapies that relate generally to the autoimmune disorders It discusses the biological basis of disease at genetic molecular cellular and epidemiologic levels and includes expanded coverage of autoinflammatory disease and autoimmune responses to tumors Gives a thorough and an important overview on the entire field framing individual disease chapters with information that compares and contrasts each disorder and therapy Provides thorough up to date information on specific diseases along with clinical applications in an easily found

reference for clinicians and researchers interested in certain diseases Keeps readers abreast of current trends and emerging areas in the field Ensures that content is not only up to date but applicable and relevant

Rheumatology and Immunology Therapy Larry W. Moreland, 2004-07-20 Entries in a practical A to Z Format Highly therapy focused Uniform and clearly arranged entries for ease of reference Comprehensive information on symptoms and therapeutical possibilities of rheumatologic and musculoskeletal diseases as well as drugs Written by leading experts in the field

Autoimmune Diseases and Their Environmental Triggers Elaine A. Moore, 2015-10-02 Autoimmune Disease AD refers to any of a number of disorders caused by an immune system defect that allows the body to attack its own tissues Some say 20 percent of the population is susceptible to Autoimmune Disease According to current theory individuals who develop AD do so because they are exposed to certain environmental triggers This work is a comprehensive resource for patients with autoimmune disease The primary focus is on the specific environmental factors including heavy metals hormones organic solvents medications and infectious agents that lead to autoimmune disease and that make the symptoms worse in genetically susceptible individuals Sections of this work describe the immune system the natural courses of disease for the various system wide and organ specific autoimmune disorders and genetic factors and lifestyle influences associated with AD Diagnostic concerns conventional and alternative treatment options for AD current research paths and laboratory tests are also covered

Herbal Medicine for Autoimmune Diseases Cennet Ozay, Gokhan Zengin, 2024-10-29 Herbal Medicine for Autoimmune Diseases addresses the immune system's role in autoimmune conditions and introduces evidence based herbal therapies for diseases like lupus diabetes rheumatoid arthritis and more Chapters highlight innovative approaches such as phyto nanotechnology for enhanced drug delivery and the therapeutic benefits of berry fruits Readers will gain insights into bioactive compounds their efficacy in clinical settings and the integration of traditional wisdom with contemporary research Ideal for students researchers and pharmaceutical professionals this book bridges the gap between ancient remedies and cutting edge healthcare solutions offering a valuable resource for understanding and managing autoimmune disorders Key Features Detailed exploration of herbal treatments for specific autoimmune diseases Integration of phyto nanotechnology for advanced drug delivery systems Evidence based insights supported by preclinical and clinical research Practical implications for academia pharmaceutical research and clinical practice Readership Undergraduate and graduate students and researchers

Mosaic of Autoimmunity Carlo Perricone, Yehuda Shoenfeld, 2019-02-13 The Mosaic of Autoimmunity The Novel Factors of Autoimmune Diseases describes the multifactorial origin and diversity of expression of autoimmune diseases in humans The term implies that different combinations of factors in autoimmunity produce varying and unique clinical pictures in a wide spectrum of autoimmune diseases Most of the factors involved in autoimmunity can be categorized into four groups genetic immune defects hormonal and environmental factors In this book the environmental factors are reviewed including infectious agents vaccines as triggers of autoimmunity smoking and its relationship with rheumatoid arthritis

systemic lupus erythematosus thyroid disease multiple sclerosis and inflammatory bowel diseases An entirely new syndrome the autoimmune inflammatory syndrome induced by adjuvants ASIA is also included along with other diseases that are now recognized as having an autoimmune etiopathogenesis The Kidney in Systemic Autoimmune Diseases Justin C Mason, Charles Pusey, 2007-12-14 This volume brings together an international group of clinicians and clinical scientists to contribute to a state of the art review of the underlying pathogenic mechanisms methods of clinical assessment classification and diagnosis of renal disease combined with a detailed overview of treatment strategies An essential reference source for all those involved with the care of patients with renal involvement in systemic autoimmune disease and for those contributing to research into the underlying pathogenic mechanisms in these disorders **Immunology** Richard Coico, 2021-03-22

Immunology A Short Course provides an overview of the physiology of the immune system and the pathophysiology of a broad range of immune mediated diseases offering accessible and comprehensive guidance to the basic concepts and clinical approaches in the discipline Now in its eighth edition this bestselling textbook has been fully updated to reflect our expanded knowledge of how the immune system develops and functions and the ways in which these physiological phenomena can fail or be compromised New chapters examine cells and organs of the immune system organization and expression of lymphocyte antigen receptor genes experimental systems and methods and B and T cell development activation Helping students gain an integrated understanding of immunology this textbook Offers substantial new and revised material expanded clinical coverage enhanced pedagogical features and updated figures tables and references Features recent research advances and therapeutic successes in the field of immunology Includes a companion website containing multiple choice questions electronic flashcards downloadable figures PowerPoint slides and sample cases Can be supplemented with the Clinical Cases in Immunology companion book The eighth edition of Immunology A Short Course is an ideal resource for life and health science students dental and nursing students seeking a short course text and basic scientists and clinical researchers looking to refresh their knowledge in the subject **Cytokine Regulation of Humoral Immunity** Clifford M. Snapper, 1996-08-06

This work focuses on the impact of the cytokine network on the humoral immune response as well as on its implications for the evolving field of cytokine based medical therapeutics Scientists interested in how cytokines regulate the production of antibody and the selective expression of distinct antibody classes in response to microbial and other antigenic challenges now have a single comprehensive and timely volume covering this complex field *Autoantibodies and Cytokines* Wahid Ali Khan, 2019-04-24 The mechanism of autoantibodies cannot be explained without the detail knowledge of cytokines and interferon These active molecules of immunology are very much dependent on each other and their function cannot be completed without their interaction towards each other Currently this the most updated book on this subject that helps the readers students to upgrade their knowledge by going through chapter by chapter Contribution by the renowned authors across the globe makes this book really unique and consider as one of the most updated textbook on this subject This book

provides a comprehensive guide to the function and types of autoantibodies and cytokines in basic and clinical field

Cytokine Therapies Raymond P. Donnelly, 2010-01-19 Cytokines are protein messengers responsible for cellular communication with great therapeutic potential to control inflammatory and immune disorders such as cancer rheumatoid arthritis multiple sclerosis and inflammatory bowel disease Despite the solid scientific rationale for this therapeutic promise many cytokine related therapies have failed to establish clinical utility In March 2009 international experts from academia industry and government convened to discuss the scientific and clinical basis for the successes and failures of recombinant cytokines and cytokine antagonists as therapeutic agents and possible strategies for improving their clinical success This volume included extended versions of key presentations at the meeting Participants examined Improved methods for identifying disease targets Alternative methods for enhancing and targeting cytokine delivery Physicochemical modification of cytokines to prolong their bioavailability NOTE Annals volumes are available for sale as individual books or as a journal For information on institutional journal subscriptions please visit www.blackwellpublishing.com/nyas ACADEMY MEMBERS Please contact the New York Academy of Sciences directly to place your order www.nyas.org Members of the New York Academy of Science receive full text access to the Annals online and discounts on print volumes Please visit <http://www.nyas.org/MemberCenter/Join.aspx> for more information about becoming a member **The Molecular Pathology of**

Autoimmune Diseases Argyrios N Theofilopoulos, Constantin A. Bona, 2002-12-06 Remarkable advances have been made in the pathogenesis of autoimmunity such as with bone marrow transplantation which is becoming a powerful strategy in treating certain life threatening diseases The Molecular Pathology of Autoimmune Diseases is a concise and centralized resource for information on the topic with a special focus on the molecula

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