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IL22 IL24 IL26 IL1F IL1F10

IL1RA IL18 FGF HGF TLR

LT α LT β TNF TRAIL RANK L

FasL Fas HMGB1 MCSF

The Cytokine Handbook

FOURTH EDITION

EDITED BY

Angus W Thomson

Michael T Lotze



EGF Flt3L SCF VEGF MIF IL8 CXCL1 C-C TGF β BMP

The Cytokine Handbook

Angus W. Thomson



The Cytokine Handbook:

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The Cytokine Handbook: Basic cytokine biology, 2003 *The Cytokine Handbook, Two-Volume Set* Angus W. Thomson, Michael T. Lotze, 2003-04-22 The fourth edition of The Cytokine Handbook provides an encyclopedic coverage of the molecules that induce and regulate immune responses Now expanded to two volumes co edited by Michael T Lotze and written by over 120 international experts the scope of the book has been broadened to include a major emphasis on the clinical applications of cytokines The early chapters discuss individual cytokines chemokines and receptors Additional chapters discuss the clinical implications and applications of cytokines including cytokine gene transfer antisense therapy and assay systems This book is essential for researchers and clinicians interested in cytokines including anyone working in cancer biology transplantation infectious diseases autoimmunity or bioinformatics Key Features Covers all main cytokines and chemokines Written by experts Up to date includes detailed referencing accessing current modern literature and reflects the newest findings from the human genome The new edition has been thoroughly revised and extended now 2 volumes as compared to the last edition including new co editor MTL new authors new hot topics and new chapters Includes major emphasis on clinical applications Extensively illustrated with tables and figures **The Cytokine Handbook** Angus W. Thomson, 1998 The Third Edition of the Cytokine Handbook provides encyclopedic coverage of the hemopoietic growth factors and the interleukin and interferon families of molecules cytokine by cytokine This new edition is completely revised to bring the reader the most up to date information on all of the important cytokines and cytokine receptors with the inclusion of new members of the interleukin family up to IL 18 in depth treatment of cytokine receptors as well as individual chapters on stem cell factor and flt3 ligand gene therapy and the chemokines The Cytokine Handbook explains in detail the immunology and molecular biology of these molecules and their receptors and discusses in additional chapters their therapeutic potential assay systems and phylogeny It is written in an easy to follow style and includes an extensive bibliography This book is a must for the library of any researcher or clinician interested in or bewildered by the diversity of cytokines Key Features Up to date material includes new members of the interleukin family up to IL 18 In depth treatment of

cytokine receptors Individual chapters on stem cell factor and flt3 ligand gene therapy and the chemokines **Clinical Approach to Infection in the Compromised Host** Robert H. Rubin, Lowell S. Young, 2007-05-08 At the beginning of the new millennium it is opportune to raveling of the molecular pathways of impaired host review what has been accomplished in the field of infec fense mechanisms and the characterization of the genetic tious diseases during the last decades of the previous mutations involved with the prospect of novel strategies century The paradigm of the immunocompromised host for therapeutic interventions and possible corrective gene has taught much about the pathophysiology of infectious therapy In this foreword I will take a helicopter view of diseases particularly with regard to immunological as the various aspects of host defense mechanisms with pects of host defense In the beginning Robert Good special emphasis on genetic factors because of their re called immunodeficiency syndromes experiments of na vance for the course and outcome of infections ture In the 1960s and subsequent decades the clinical During life there exist phases of age related c and immunological aspects of immune deficiencies were promised immune functions After birth there is a phys studied and adequate treatment attempted A reflection of logical immune deficiency because the production of an these developments were the three successful meetings on bodies commences slowly upon contact of the neonate these topics in Veldhoven The Netherlands 1980 Stir with microorganisms and upon vaccination **Cytokines and Chemokines in Infectious Diseases Handbook** Malak Kotb, Thierry Calandra, 2012-12-06 A comprehensive review of what is known about the role of cytokines and chemokines in a variety of human infectious diseases including gram negative and positive infections listeriosis mycobacterial infections lyme arthritis pneumonia fungal infections HIV leishmaniasis and sepsis The authors demonstrate the different cytokine and chemokine production profiles in response to a wide variety of pathogens and the importance of host genetic factors in determining the type and magnitude of responses to a given microorganism They also critically evaluate the use of cytokines and anticytokines in the treatment of infectious diseases and show how knowledge of cytokine pleiotropic effects redundancy and the complexity of the cytokine network has led to better design and better outcomes in cytokine based therapies for specific infections **The Cytokine Factsbook** Robin E. Callard, A. J. H. Gearing, 1994 How do you keep track of basic information on the proteins you work with Where do you find details of their physicochemical properties amino acid sequences gene organization Are you tired of scanning review articles primary papers and databases to locate that elusive fact The Academic Press FactsBook series will satisfy scientists and clinical researchers suffering from information overload Each volume provides a catalogue of the essential properties of families of molecules Gene organization amino acid sequences physicochemical properties and biological activity are presented using a common easy to follow format Taken together they compile everything you wanted to know about proteins but were too busy to look for More than 45 entries on human and murine cytokines and their receptors including Cytokine receptor superfamilies Interleukins 1 15 Other cytokines Additional information is provided on Alternative nomenclature Cross reactivity Sources Bio assays Physicochemical

properties of the cytokines and their receptors 3 D structure Gene structure and chromosomal localisation Amino acid sequences of the cytokines and their receptors Receptors Receptor distribution Signal transduction Chromosomal location of the receptors References *Cytokines* Anthony R. Mire-Sluis, Robin Thorpe, 1998-04-15 This book provides comprehensive coverage of the cytokines from a pharmacological approach The chapters are presented in a consistent format allowing easy cross reference with sample diagrams and a summary table of essential facts for each chapter at the end of the book Cytokines is unique in stressing cytokine biology and the application of research data to provide disease therapy With 33 detailed and up to date chapters about individual cytokines this comprehensive reference will provide both clinicians and researchers in immunology and pharmacology with invaluable information Genetic information and sequences Protein structure Cell sources and production Biological activity Cytokine receptor structure and signal transduction Discussion of the role of cytokines in disease and the potential for therapy Summary table of essential facts Comprehensive bibliography

The Cytokine Network and Immune Functions Jacques Thèze, 1999 The great scientific progress in our understanding of the genetics chemistry biology and pathophysiology of the cytokines has made clear the need for a comprehensive discussion of these molecules as part of a unified system The Cytokine Network and Immune Functions provides just such a treatment It represents the efforts of many of the most prominent scientists studying these molecules Not only does it present a general discussion of each of the major cytokines or sets of cytokines it deals in detail with how these molecules affect all aspects of immune function and how they contribute to a wide range of pathological conditions As the title clearly indicates this book does not treat individual cytokines in isolation it recognizes that they act in a complex web of synergistic and counter regulatory effects so as to provide opportunities for the very fine control of immune responses Cytokine biology is not only a fascinating scientific discipline giving insight into how the immune and inflammatory systems are linked and regulated but also it is a subject of profound importance in modern medicine As the chapters in the section of this book entitled Cytokines in Pathology indicate virtually all insults to the organism be they acute or chronic call upon cytokine responses and virtually every disease entity has a component involving the function of cytokines In some diseases such as allergy and asthma and many of the autoimmune disorders abnormal cytokine responses are at the very heart of the disease process in others their impact may be more peripheral There can be no doubt however that the study of cytokine biology has contributed greatly to the growing power of molecular medicine transforming our approach to disease and building a new armamentarium of drugs and other treatments that promise to revolutionize our capacity to control a wide range of disease states **Pharmacology of Cytokines** Alberto Mantovani, Charles A. Dinarello, Petro Ghezzi, 2000 Cytokines are the words of immunity serving as mediators within and outside the immune system There is tremendous interest in their exploitation as therapeutic tools in diverse human diseases and considerable effort has been made to understand and utilize their pharmacology This book examines this pharmacology from developments and characterization of simple chemicals and their mechanism of action to

the use of biotechnology based approaches The book puts cytokines and their pharmacology in context and examines their involvement in individual organ disease systems The Regulation of Cytokine Receptor Signal Transduction by Oligomerization Kathleen D. Liu,1997 Immunology Methods Manual: Immunodiagnosis of human B cell malignancies Ivan Lefkovits,1997 **ICN** ICN Biomedicals, Inc,1995 Cytokines and Cytokine Receptors Anne S. Hamblin,1993 Comprehensive review of the latest developments in cytokine research Focuses on the structures and functions of the best characterized cytokines The ideal supplementary text for students on immunology courses This volume brings the student completely up to date with all the latest information in the fast moving field Presented in a clear and accessible format the information is drawn from many primary sources ensuring the student an in depth look at the field With the growing importance of cytokinebiology to the understanding of the development and control of immune reactions this book will be an essential text for students of this discipline **The Effect of Pain on Proinflammatory Cytokines and Leukocyte Cellular Adhesion Molecules** Charles Alan Griffis,2005 **Cell Signalling** John T. Hancock,1997 Signalling within and between cells is an essential part of many biological processes from the development of the body to the activity of our immune system Recent advances in molecular cell biology have allowed us to identify the components of signalling pathways and examine how they interact to form the carefully orchestrated and controlled networks upon which the complexity of a living organism is built Guidebook to Cytokines and Their Receptors Nicos Nicola,1994 The number of cytokines and related growth factors has increased dramatically in recent years to several dozen This text provides a succinct reference manual for all known cytokines growth factors interleukins and lymphokines as well as their receptors **Factors Associated with Healing of Periradicular Lesions** John Danin,2003

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