

Progress in Inflammation Research

Michael J. Farnham

Series Editor

MCP

New Cytokines as Potential Drugs

S.K. Narula
R. Coffman

Editors

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New Cytokines As Potential Drugs

Satwant K. Narula, Robert Coffman



New Cytokines As Potential Drugs:

New Cytokines as Potential Drugs Satwant K. Narula, Robert Coffman, 2012-11-19 Over the past ten years a number of cytokines and growth factors have proven to be as effective therapeutics While these products have certainly established recombinant biologics as a major pharmaceutical growth sector the continued interest in this class of drugs arises from the fact that today we have a far better understanding of the human immune response both at a cellular and molecular level This has resulted in a more methodical characterisation of these factors which has given clinical researchers an opportunity to plan Phase 1 clinical trials that can provide substantial information on the activity of the cytokine in humans Currently a great deal of effort is also being channelled into identifying cytokines from the various DNA databases Our major objective for this book is to profile cytokines that have been recently identified The therapeutic potential of these cytokines based on their known properties will be discussed by the authors The main aim of this book is to provide **New Cytokines as**

Potential Drugs Satwant K. Narula, Robert L. Coffman, 2000-01 *Novel Cytokine Inhibitors* G. A. Higgs, Brian Henderson (Professor), 2000 Cytokines have become established as key mediators of the signs and symptoms of inflammatory diseases such as arthritis dermatitis asthma and multiple sclerosis Furthermore they are involved in the cascade of events leading to cardiovascular shock and are major regulators of the function of immune cells This book reviews recent advances in the development of new anti inflammatory drugs It addresses different therapeutic intervention possibilities for new drugs such as the cellular source of cytokines specific receptors which induce cytokine synthesis intracellular regulators of cytokine gene induction and expression secretion and activation of cytokines cytokine receptors and signalling pathways from these receptors Accordingly experts were drawn from different backgrounds including academic research institutes the pharmaceutical industry and clinical pharmacology In each area the opportunities for drug development are highlighted and where possible clinical data is reviewed **Cytokines and Joint Injury** Wim B. van den Berg, Pierre Miossec, 2012-12-06

The purpose of this volume in the Progress in Inflammation Research series is to provide the biomedical and clinical researcher with a state of the art insight in the role of cytokines in joint inflammation and joint destruction This is of relevance for better understanding of key processes in diseases such as rheumatoid arthritis RA and osteoarthritis OA Apart from the impact of old and novel cytokines on joint tissues the various chapters address the issue of targeted therapy with biological response modifiers and future interventions with carefully designed inhibitors Special attention is given to elements of synovial cell activation cell cell interaction cytokine interplay as well as mechanisms of cartilage destruction and bone erosion In addition to an outline of the role of established cytokines such as TNF IL 1 and IL 6 new information is given on the novel cytokines IL 15 IL 17 and IL 18 and their positioning in the complex cytokine interplay Cytokine regulation of destructive enzymes RANKL the endogenous inhibitor OPG and their crucial roles as central players in joint erosion are highlighted Together the chapters provide a complete and balanced view on pivotal cytokines and joint pathology **Recent**

Advances in the Pathophysiology of COPD Trevor T. Hansel, Peter J. Barnes, 2012-12-06 Chronic obstructive pulmonary disease COPD ranges amongst the commonest diseases in the world The relentless progression of the disease causes a pressing need for a better understanding of and therapies for COPD This volume provides state of the art information on the pathophysiology of COPD including an outlook on new therapies It is of interest to researchers and clinicians in academia as well as in the pharmaceutical industry

Turning up the Heat on Pain: TRPV1 Receptors in Pain and Inflammation Annika B. Malmberg, Keith R. Bley, 2005-08-15 Despite tremendous advances in the understanding of the sensory nervous system which have accompanied the recent explosive growth of the neurosciences remarkably few innovative medicines directed towards pain and inflammation are available Indeed many patients are still prescribed analgesic and anti inflammatory medications that were identified long ago as components of herbal remedies Similarly potential new medicines in clinical evaluation based on capsaicin and the capsaicin receptor are both grounded firmly on folk traditions and yet rely upon the most contemporary techniques of drug discovery and delivery The first formal report of the pain relieving properties of capsaicin appeared in 1850 1 However for centuries before this capsaicin containing extracts had been used as folk medicines in cultures with access to pepper plants much in the same way as poppy or willow bark extracts were Despite widespread use it was not until 1878 that the selective action of capsaicin on the sensory nervous system was recognized 2 In Chapter 1 of this volume Janos Szolcsanyi reviews this early research which culminated with the seminal studies of Nicholas Jansco and his colleagues in Hungary in the 1940s Since then capsaicin and related vanilloid compounds have played a prominent role in analgesia and inflammation investigations because of their ability to selectively activate a subpopulation of sensory neurons and produce sensations of pain and localized erythema

The NPY Family of Peptides in Immune Disorders, Inflammation, Angiogenesis, and Cancer Giora Z. Feuerstein, 2005-10-20 In this book experts in the field analyze recent evidence supporting the role of NPY family peptides in regulation of the immune inflammatory system with special reference to its medical and therapeutic implications Of special interest are the NPY functions in angiogenesis that provide new insights into vascular and neural remodeling inflammation tissue regeneration and tumor biology as well as offer new strategies for treatment of atherosclerosis cancer and vascular ischemic diseases

BOOK JACKET

Bone Morphogenetic Proteins: Regeneration of Bone and Beyond Slobodan Vukicevic, Kuber T. Sampath, 2012-11-28 Since the discovery of the bone morphogenetic proteins BMPs more than 15 years ago there has been an unpredicted explosion of both basic scientific discoveries and clinical reports on their use from institutions all over the world The potent efficacy of BMPs in almost all crucial developmental events as well as during regeneration of various organs such as bone kidney brain liver heart etc has positioned BMPs at the center of scientific interest Many of these aspects are covered in this new PIR volume Their role in development biology signal transduction kidney regeneration ENS functions craniofacial skeleton reconstruction joint and cartilage repair long bone non unions and acute fractures and spinal fusion is reviewed by experts

in the field For the first time the role of BMPs in carcinogenesis has been reviewed to provide a rationale for applying their biology in patients with bone tumors The optimism resulting from safe and successful treatment with BMPs for various skeletal malformations of more than 10 000 patients worldwide has opened new avenues for exploring other indications for their use The next big challenge for bringing BMPs to the benefit of mankind is in regenerating articular cartilage defects and rescuing patients with acute and chronic renal failure The volume editors thank all authors for the rapid preparation of their chapters in order that the book remains up to date for readers with specific interest in the field of regenerative medicine The important contribution of Mrs Morana and Mr *Inflammatory Processes* L. Gordon Letts, Douglas W. Morgan, 2000 In October 1998 key leaders of new drug discovery for inflammatory diseases gathered at Hershey Pennsylvania for the 10th International Conference of the Inflammation Research Association The conference provided a stimulating environment for the open exchange of important advances in basic inflammation research and new drug discovery and development This book encompasses highlights of several presentations made at the conference and contains some of the latest and important developments in the field of inflammation research High Throughput Screening for Novel Anti-Inflammatories Michael Kahn, 2000-05-01 Combinatorial chemistry in conjunction with High Throughput Screening HTS is revolutionizing the drug discovery process Yet we have much to learn about the integration of these powerful techniques with information from genomics proteomics computation and pharmacokinetics before dramatic increases in the drug discovery development processes can be achieved The chapters in this book represent the state of the art regarding the integration of combinatorial chemistry and HTS in connection with anti-inflammatory targets Obviously there is much work to be done beyond what is described in this text nevertheless it should set the stage for creative thinking among scientists of many disciplines for the accomplishment of our ultimate goals in treating inflammatory diseases

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