

Progress in Inflammation Research

Michael J. Parnham  
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# Metalloproteinases as Targets for Anti-Inflammatory Drugs



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Springer Basel AG

# Metalloproteinases As Targets For Antiinflammatory Drugs

**Kevin M.K. Bottomley, David  
Bradshaw, John S. Nixon**



## **Metalloproteinases As Targets For Antiinflammatory Drugs:**

*Metalloproteinases as Targets for Anti-Inflammatory Drugs* Kevin M.K. Bottomley, David Bradshaw, John S. Nixon, 2012-12-06 This volume describes recent research in the field of metalloproteinases a family of enzymes that can catalyze tissue degradation in particular their participation in autoimmune diseases such as rheumatoid arthritis reviewing the latest developments in metalloproteinase inhibitor design and the current status of clinical candidates This volume is intended not only for those active in research into metalloproteinases but also for those with an interest in inflammatory diseases Thus it addresses both academic and industrial researchers Metalloproteinases As Targets for Anti-Inflammatory Drugs Kevin M.K. Bottomley, David Bradshaw, John S. Nixon, 1999-12 This volume describes recent research in the field of metalloproteinases a family of enzymes that can catalyze tissue degradation in particular their participation in autoimmune diseases such as rheumatoid arthritis reviewing the latest developments in metalloproteinase inhibitor design and the current status of clinical candidates This volume is intended not only for those active in research into metalloproteinases but also for those with an interest in inflammatory diseases Thus it addresses both academic and industrial researchers Metalloproteinases As Targets for Anti-Inflammatory Drugs Springer, 2012-11-26 *New Drugs and Targets for Asthma and COPD* Trevor T. Hansel, Peter J. Barnes, 2010-01-01 Asthma allergy and chronic obstructive lung disease are common throughout the world and are increasing in incidence particularly in the developing world This volume provides a state of the art account of the identification of new targets and the development of new therapies for these conditions Some 40 chapters by clinical academics and senior members of the pharmaceutical industry detail the latest breakthroughs in research and development In asthma a promising approach is the use of therapy directed against specific Th2 responses through biological antagonists of IL 5 IL 4 and IL 13 There have also been major advances in our understanding of innate immune responses to pathogen associated molecular patterns and in the area of Toll like receptors Up to date and comprehensive this book will be of particular relevance to those working in the pharmaceutical industry in preclinical research and clinical development to academic researchers in the field of respiratory medicine and to respiratory health care specialists Proteases and Their Receptors in Inflammation Nathalie Vergnolle, Michel Chignard, 2011-08-03 Proteases are everywhere from prokaryotes to eukaryotes from virus to bacteria and in all human tissues playing a role in many biological functions Among these functions the inflammatory reaction is of particular interest In inflamed tissues proteases can have a microbial and or host origin and are involved not only in tissue remodeling but also in specific signaling to resident or inflammatory cells thereby contributing to the innate immune response This volume presents all advances in our knowledge of the role proteases and their inhibitors play in various diseases associated with inflammatory response Mechanisms involved in protease signaling to cells are presented and the different types of proteases that are present at inflammatory sites and their effects on the course of inflammation are discussed Finally the evidence for considering

proteases and their receptors as potential molecular targets for therapeutic interventions in the treatment of inflammatory diseases is discussed in the context of specific organ inflammatory pathologies the lung gastrointestinal tract skin joints etc

**Contemporary Targeted Therapies in Rheumatology** Josef S. Smolen, Peter E. Lipsky, 2007-10-18 Targeted therapies of rheumatic diseases have become a reality and have completely changed patient care as well as patient expectations Initial success with therapies aimed at blocking TNF and IL 1 has stimulated the development of additional targeted approaches focused on other cytokines as well as specific cells and pathways involved in the path *Matrix Metalloproteinases and Tissue Remodeling in Health and Disease: Target Tissues and Therapy*, 2017-06-26 Matrix Metalloproteinases and Tissue Remodeling in Health and Disease Target Tissues and Therapy Volume Volume 148 the latest volume in the Progress in Molecular Biology and Translational Science series covers a variety of timely topics with chapters focusing on The Role of Matrix Metalloproteinases in Development Repair and Destruction of the Lungs Matrix Metalloproteinases in Kidney Disease Role in Pathogenesis and Potential as a Therapeutic Target Regulation of Matrix Metalloproteinase in the Pathogenesis of Diabetic Retinopathy Matrix Metalloproteinases in Normal Pregnancy and Preeclampsia and Matrix Metalloproteinases Neural Extracellular Matrix and Central Nervous System Pathology This volume is the second part of a thematic on matrix metalloproteinases and tissue remodeling in health and disease It focuses on the role of MMPs in other systems target tissues and pathological disorders and the potential benefits of MMP inhibitors in various disorders Serves as the second part of a thematic on matrix metalloproteinases and tissue remodeling in health and disease Focuses on cardiovascular remodeling Contains contributions from leading authorities on the topics Publishes cutting edge reviews in molecular biology Small Animal Clinical Pharmacology and Therapeutics Dawn Merton Boothe, 2011-04-05 Confidently utilize the rapidly growing selection of pharmaceuticals used to treat small animals Small Animal Pharmacology and Therapeutics 2nd Edition helps you understand both the therapeutic uses of common pharmaceuticals and the pharmacology behind them giving you all of the information you need to design and modify dosing regimens identify factors that cause drugs to fail and anticipate adverse drug reactions Comprehensive approach emphasizes the use of drugs for prevention as well as treatment Clear consistent organization makes it easy to find the information you need when you need it Dosage tables help you find essential pharmaceutical information at a glance Pharmacogenetics chapter helps you understand how to use this emerging science to find the right dose for each patient optimizing efficiency and minimizing toxicity Routes of administration and sample pharmaceutical calculations provide fast efficient access to comprehensive drug administration all in one inclusive resource Multiple chapters on Antimicrobial Drugs and Antimicrobial Therapy highlight the impact of antimicrobial resistance on current practice Metallo-Drugs: Development and Action of Anticancer Agents Astrid Sigel, Helmut Sigel, Eva Freisinger, Roland K.O. Sigel, 2018-02-05 Volume 18 entitled Metallo Drugs Development and Action of Anticancer Agents of the series Metal Ions in Life Sciences centers on biological medicinal inorganic chemistry The serendipitous discovery of the

antitumor activity of cis diamminodichloroplatinum II cisplatin by Barnett Rosenberg in the 1960s is a landmark in metallodrug based chemotherapy The success of cisplatin in the clinic followed by oxaliplatin and carboplatin along with their drawbacks relating mainly to resistance development and severe toxicity initiated research on polynuclear platinum complexes and on Pt IV complexes as prodrugs Furthermore the indicated shortcomings led to the exploration of other transition and main group metal ions among them Ru II III Au I III Ti IV V IV V and Ga III including also the essential metal ions Fe II III Cu I II and Zn II Ionic as well as covalent and non covalent interactions between structurally very different complexes and biomolecules like nucleic acids proteins and carbohydrates are studied and discussed with regard to their possible anticancer actions Hence MILS 18 summarizes the research at the forefront of medicinal inorganic chemistry including studies on the next generation tailor made anticancer drugs All this and more is treated in an authoritative and timely manner in the 17 stimulating chapters of this book written by 39 internationally recognized experts from 10 nations from the US via Europe to China and Australia The impact of this vibrant research area is manifested by more than 2700 references nearly 150 illustrations more than half in color and several comprehensive tables **Metallo Drugs Development and Action of Anticancer Agents** is an essential resource for scientists working in the wide range from enzymology material sciences analytical organic and inorganic biochemistry all the way through to medicine including the clinic not forgetting that it also provides excellent information for teaching **Carbonic Anhydrase as Drug Target** Daumantas

Matulis,2019-05-21 This book offers deep insights into the thermodynamics and molecular structures of the twelve catalytically active isoforms of human carbonic anhydrase CA with a particular focus on inhibitor binding for drug design X ray crystallographic structures in combination with enzyme kinetic testing provide information on the interaction of CAs and their inhibitors knowledge which is crucial for rational drug design CAs are zinc carrying enzymes that catalyse the reversible interconversion of carbon dioxide and bicarbonate and are involved in numerous cellular processes They are therefore a common target for drugs The suppression of CA activities through inhibitory compounds has found application for example in diuretics and in glaucoma therapy In this book methods used to determine binding thermodynamics of inhibitory compounds Isothermal titration calorimetry Fluorescent thermal shift assay differential scanning fluorimetry and others will be compared in detail Also types and chemical synthesis of CA inhibitors the use of antibodies against CAs as well as inhibitor application in animals are discussed *The Molecular Targets and Therapeutic Uses of Curcumin in Health and Disease*

Bharat B. Aggarwal,Young-Joon Surh,S. Shishodia,2007-08-06 Curcumin is derived from the root of the plant *Curcuma longa* also called turmeric and its medicinal uses have been described for over 5000 years More than 1500 papers published within last half a century has revealed that curcumin has a potential in the treatment of wide variety of inflammatory diseases including cancer diabetes cardiovascular diseases arthritis Alzheimer psoriasis etc through modulation of numerous molecular targets This is the first monograph to deal specifically with this subject *Bio-Targets and Drug Delivery*

*Approaches* Sabyasachi Maiti, Kalyan Kumar Sen, 2016-11-03 The advances in drug delivery systems over recent years have resulted in a large number of novel delivery systems with the potential to revolutionize the treatment and prevention of diseases *Bio Targets and Drug Delivery Approaches* is an easy to read book for students researchers and pharmaceutical scientists providing a comprehensive introduction to the principles of advanced drug delivery and targeting their current applications and potential future developments

*Inhibition of Matrix Metalloproteinases* Robert A. Greenwald, Stanley Zucker, Lorne M. Golub, 1999 This volume contains papers from a multidisciplinary conference convened to discuss mechanisms of action pharmacology models for drug development and recent positive clinical trial data relating to the inhibition of collagenases and related metalloproteinases matrix MMPs Excess metalloproteinase activity has been identified in many disease processes and finally products for the specific use as metalloproteinase inhibitors are about to be marketed In this book two novel themes are explored the arguments for and against broad spectrum versus specific MMP inhibitors and the potential usefulness of chairside diagnostic kits for clinical determination of excessive MMP activity

*Molecular Targets in Cancer Therapy* Anand Shankar Ramteke, Suresh Kumar Ramakrishnan, Rajesh Agarwal, 2025-06-23 Cancer continues to be a major global health challenge Recent breakthroughs in molecular biology and multi omics technologies have revolutionized the understanding of disease pathology and treatment modalities *Molecular Targets in Cancer Therapy* is a cutting edge resource that explores the rapidly evolving landscape of targeted cancer treatments offering critical insights into the molecular mechanisms driving tumors growth and progression This comprehensive book brings together contributions from leading cancer researchers who examine a wide range of molecular targets that are involved in hallmarks of cancer i e cell signalling pathways angiogenesis cell death pathways epithelial mesenchymal transitions telomerase immune signalling metabolic attributes etc Each chapter delves into the biological rationale current therapeutic strategies and clinical implications of targeting these molecules offering readers both foundational knowledge and the latest advances in the field

**Target Discovery and Validation Reviews and Protocols** Mouldy Sioud, 2008-02-05 *Target Discovery and Validation Reviews and Protocols Volumes 1 and 2* review the most progressive and current methods for drug target discovery and validation These volumes explore how recent improvement in understanding the molecular mechanisms of human pathology is impacting drug target discovery in the laboratory and in real therapeutics specifically for cancers and autoimmune disorders Volume 1 focuses on novel and innovative techniques and presents the most up to date protocols available for maximizing the likelihood of achieving target selective inhibition in vivo while minimizing side effects The profound impact of genomics proteomics and bioinformatics on target discovery is explored and specific attention is given to the role of transgenic and knockout animals in functional genomics and target validation Cancer researchers will find tremendous value in the molecular classification of breast cancers and the review of protocols for tumor antigens and cancer vaccines The methods and protocols collected here all reviewed by leading scientists and clinicians present the practical

details necessary for translating the enormous discovery potential of the genome into real therapeutic products Volume 2 collects all the practical details required for efficient translation of discovered targets into real pharmaceutical drugs Specific targets in cancers and autoimmunity are described and the potential of using siRNAs antisense oligonucleotides and RNA aptamers in patients is reviewed This volume explores the tremendous impact of the application of genotyping and gene expression profiling on the future of healthcare and presents cutting edge protocols to aid in bringing agents against specific targets closer to application in the clinic Collectively these volumes provide a thorough review of the most cutting edge methods available for each step in drug target identification validation and clinical application For researchers an understanding of available methods aids in the creation of innovative experiments in the laboratory and the successful translation of target discovery to real therapeutics **Drug Design of Zinc-Enzyme Inhibitors** Claudiu T.

Supuran, Jean-Yves Winum, 2009-10-22 Brings together functional and structural information relevant to the design of drugs targeting zinc enzymes The second most abundant transition element in living organisms zinc spans all areas of metabolism with zinc containing proteins offering both established and potential drug targets Drug Design of Zinc Enzyme Inhibitors brings together functional and structural information relevant to these zinc containing targets With up to date overviews of the latest developments field this unique and comprehensive text enables readers to understand zinc enzymes and evaluate them in a drug design context With contributions from the leaders of today's research Drug Design of Zinc Enzyme Inhibitors covers such key topics as Major drug targets like carbonic anhydrases matrix metalloproteinases bacterial proteases angiotensin converting enzyme histone deacetylase and APOBEC3G Roles of recently discovered zinc containing isozymes in cancer obesity epilepsy pain management malaria and other conditions Cross reactivity of zinc enzyme inhibitors and activators The extensive use of X ray crystallography and QSAR studies for understanding zinc containing proteins Clinical applications An essential resource for the discovery and development of new drug molecules Drug Design of Zinc Enzyme Inhibitors gives researchers professionals students and academics the foundation to understand and work with zinc enzyme inhibitors and activators **Immunomodulatory role of metalloproteases in chronic inflammatory diseases** Chao

Yang, Shicheng Guo, Chung Nga Ko, Guan-Jun Yang, Dan Li, 2023-05-03 Novel Targets for Chronic Inflammatory Diseases: Focus On Therapeutic Drugs and Natural Compounds, volume II Yan Huang, Zhigang Xiong, Songyan Liao, Feng Li, Li Wu, 2024-03-18 This Research Topic is part of a series with Novel Targets for Chronic Inflammatory Diseases Focus On Therapeutic Drugs and Natural Compounds Chronic inflammation is a component of many disease conditions that affect a large group of individuals worldwide which is characterized by persistent low grade inflammation and is increased in the aging population It occurs when an initiating stimulus is not removed or if the resolution process is disrupted resulting in a state of low grade inflammation It is acknowledged that chronic inflammatory diseases are involved in cardiovascular diseases endocrine disease neurodegenerative disease hepatic disease pulmonary disease gastrointestinal disease and cancer

et al including but not limited to atherosclerosis diabetes multiple sclerosis fibrosis NAFLD COPD inflammatory bowel disease autoimmune disorders like SLE RA which are major causes of death worldwide Immunity is a physiological function of the human body which maintains health by destroying and rejecting foreign substances including antigens damaged cells and tumors et al There is a close relationship between inflammation and immunity whether they are both protective mechanisms against invasion or injury responses Therefore the important role of inflammatory and immune responses should be noted it is necessary to explore novel targets and therapeutic drugs for chronic inflammatory diseases

*Biotechnological Innovation and Sustainable Developmental Goals* RC Solti, 2025-09-23 This reference book examines the role of biotechnological innovations in achieving global health targets addressing disease burdens and fostering a sustainable healthcare ecosystem for promoting good health and wellbeing It covers a wide range of topics including the evolution of healthcare technologies epidemiological approaches in predictive medicine management of diseases across different organs emerging technologies in drug development design and delivery systems vaccination strategies technologies for tackling pandemics and biotechnological applications in regenerative medicine and tissue engineering Further the book discusses different biotechnological advances in geriatric medicine and innovative therapies for age related diseases It also explores the intersection of biotechnology with maternal and child health and emphasizes the One Health approach in preventing and controlling zoonotic diseases This book is intended for researchers academics and professionals in biotechnology healthcare and public health Key Features Discusses the potential of biotechnological innovations in achieving sustainable development goals towards good health and wellbeing Provides an in depth analysis of the latest biotechnological innovations in pharmaceuticals diagnostics medical devices regenerative medicine and personalized medicine Examines the role of biotechnology in addressing major global health challenges such as infectious diseases non communicable diseases and maternal and child health Reviews biotechnological advances in geriatric medicine age related diseases longevity anti aging biotechnologies and innovative drug delivery systems Presents the vast potential of biotechnological applications in regenerative medicine and tissue engineering Assesses ethical legal and social implications of biotechnological advancements in healthcare and their impact on individuals societies and sustainable development **Pharmacological**

**Targets in Metabolic Diseases** Marcos Roberto de Oliveira, 2025-09-01 *Pharmacological Targets in Metabolic Diseases Challenges and Opportunities* is a complete reference on possible drug development targets to be leveraged in therapeutic developments Covering both signaling pathways and specific proteins the book presents ways to modulate the molecular and cellular alterations observed in metabolic diseases and disorders through the application of new or classical drugs The comprehensive coverage starts by providing an overview of metabolic diseases and disorders biological alterations and pharmacological targets This section covers targets at both molecular and subcellular and cellular levels The next section in the book is focused on pharmaceutical targeting of organs including a dedicated chapter to the gut brain axis Next comes a



thorough review of the current advances in metabolic syndrome research Section VI is focused on inborn errors of metabolism and is followed by a section devoted to natural molecules and their pharmacological potential to treat these conditions The Editor introduces next a whole section dedicated to the role of the microbiota in metabolic diseases therapeutics The following sections cover the impact of aging nanotechnology the environment and finally diagnostic techniques in metabolic diseases and disorders Pharmacological Targets in Metabolic Diseases Challenges and Opportunities meet the needs of pharmacology researchers looking for a comprehensive and authoritative source of information on possible therapeutic targets to treat these conditions Research physicians nutritionists pharmacists and biologists can benefit from the detailed information provided at the different levels of targets identified to treat metabolic diseases and conditions Covers the most prevalent metabolic diseases and disorders such as metabolic syndrome diabetes mellitus types I and II and dyslipidemia among others Includes chapters on the microbiome and environmental pollution as they relate to metabolic diseases and conditions Discusses cellular structures like the endoplasmic reticulum and mitochondria as pharmacological targets

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### **Metalloproteinases As Targets For Antiinflammatory Drugs Introduction**

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