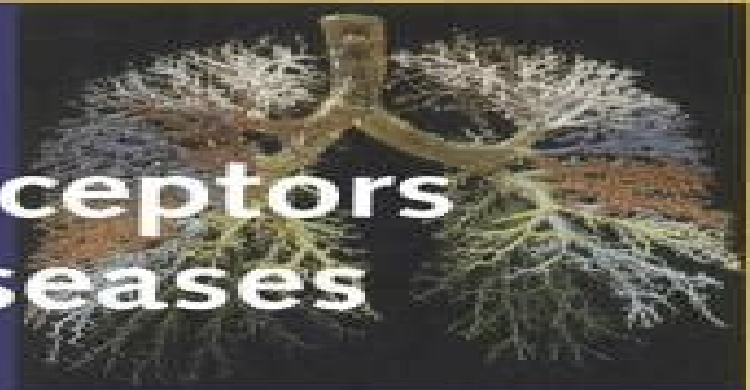


Progress in Inflammation Research

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Series Editor

Muscarinic Receptors in Airways Diseases



J. Zaagsma
H. Meurs
A. F. Roffel

Editors

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**Devendra K. Agrawal, Robert G.
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Muscarinic Receptors in Airways Diseases Johan Zaagsma, Herman Meurs, Ad F. Roffel, 2013-03-08 What are the different muscarinic acetylcholine receptor subtypes and how are they distributed in the airways and molecular signalling mechanisms What is their function in neurogenic and non neurogenic control of the airways and in inflammatory mechanisms How is their gene expression regulated The great importance of muscarinic acetylcholine receptors for the pathophysiology and treatment of chronic inflammatory obstructive airways diseases calls for a comprehensive and integrated overview of the current knowledge to address such questions to discuss the role of these receptor subtypes in diseases such as asthma and COPD and to present novel perspectives on antimuscarinic drug development The present book is the worthy result of this need It points out innovative insights into the hitherto poorly understood role of postjunctional muscarinic M2 receptors in airway smooth muscle contraction and sheds some light on the novel concepts of antimuscarinic drug development with special reference to the l

Cellular Mechanisms in Airways Inflammation Clive P. Page, Katharine H. Banner, Domenico Spina, 2000-08-01 Airways inflammation is a complex biological phenomenon resulting from the recruitment and activation of numerous cell types Airways inflammation contributes to the pathophysiology of airways disease An understanding of the mechanisms that regulate inflammatory cell function is essential for the development of novel anti inflammatory drugs for the treatment of common respiratory diseases such as asthma and COPD This book provides a collection of valuable reviews on the major inflammatory cells involved in airways disease and examines the pharmacology of current anti inflammatory drugs used in the treatment of airways disease Moreover an insight into the development of emerging drug therapies is also highlighted This book is a must for the library of any researcher or clinician interested in the pathophysiology of airways disease

Inflammatory Cells and Mediators in Bronchial Asthma Devendra K. Agrawal, Robert G. Townley, 2020-10-28 *Inflammatory Cells and Mediators in Bronchial Asthma* provides reviews and summaries regarding state of the art articles that examine the role of various inflammatory cells and their mediators in the pathogenesis of asthma Topics include pharmacological and biochemical regulation of the airways involvement of key inflammatory cells and the release and effect of their mediators in airway function and the characteristics of receptors for leukotriene B4 C4 and D4 adenosine platelet activating factor sensory and inflammatory peptides and the effect of various anti asthmatic drugs on airway inflammation Physicians allergists immunologists and pulmonary disease research scientists will find this book to be an invaluable reference resource

Cellular Mechanisms in Airways Inflammation Clive P. Page, Katharine H. Banner, Domenico Spina, 2014-01-15

Muscarinic Receptors Allison D. Fryer, Arthur Christopoulos, Neil M. Nathanson, 2014-02-22 Muscarinic acetylcholine receptors have played a key role in the advancement of knowledge of pharmacology and neurotransmission since the inception of studies in these fields and the effects of naturally occurring drugs acting on muscarinic receptors were known and exploited for both therapeutic and non therapeutic purposes for

hundreds of years before the existence of the receptors themselves was recognized This volume presents a broad yet detailed review of current knowledge of muscarinic receptors that will be valuable both to long time muscarinic investigators and to those new to the field It describes the detailed insights that have been obtained on the structure function and cell biology of muscarinic receptors This volume also describes physiological analyses of muscarinic receptors and their roles in regulating the function of the brain and of a variety of peripheral tissues This volume shows how the study of muscarinic receptors continues to provide new and surprising insights not just to the cholinergic system but to the broad areas of neurobiology cell biology pharmacology and therapeutics

Therapeutic Targets in Airway Inflammation N. Tony Eissa, David P. Huston, 2003-05-13 This reference examines the cellular molecular and genetic mechanisms involved in airway inflammation as well as the pathophysiology epidemiology and aetiology of asthma It explores strategies to prevent cellular injury and oxidative tissue damage inhibit key inflammatory pathways and identify disease specific targets to reduce the induction

T-Lymphocyte and Inflammatory Cell Research in Asthma G. Jolles, J. A. Karlsson, Jack H. Taylor, 2012-12-02 It is well established that asthma is an inflammatory disease of the airway mucosa and drugs like inhaled glucocorticoids are now commonly introduced early in therapy A characteristic feature of this disease is the vast number of eosinophils in airway tissue although many other migratory and resident inflammatory cells with the capacity to synthesize and release cytokines and putative asthma mediators are present in the inflamed mucosa The cross talk between lymphocytes and these cells and the role of cytokines in complex biological networks are currently areas of intense research This volume gathers together chapters and discussions on the biology of immunocompetent and inflammatory cells cellular interplay and communication and on the relative importance of cells and mediators in disease It should help contribute to further insights into the pathology of asthma and to the development of novel efficacious drugs for the treatment of asthma and related respiratory disorders

Anticholinergic Agents in the Upper and Lower Airways Sheldon Spector, 1999-06-04 This comprehensive collection discusses anticholinergic agents integrating the treatment of rhinitis the common cold and asthma in the upper and lower airways while updating the latest therapeutic practices Features assessments of soon to be available medications Written by expert allergists and pulmonologists as an exploration of the clinical application of antimuscarinics

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web the volvo d5k engine is a four cylinder 5 litre engine with a power output of either 210 or 240 hp ideal for smaller trucks like the volvo fl 12 tonner the d5k is one of the most powerful four cylinder engines on the market for the heavier volvo fl

trucks like the 18 tonner the six cylinder 8 litre

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web the b5tl is powered by volvo s new 4 cylinder 5 1 litre d5k 240 engine which is rated at 240 bhp 177 kw the move to a smaller engine is one of the weight reduction measures implemented to the new bus 1 along with its bodybuilding partner wrightbus the whole bus achieves a reduction of 1 000 kg comparing to its predecessor

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web engines d5k 210 240 hp d8k 250 280 320 hp electric at home in the city compact dynamic and every inch a volvo the volvo fl was born for the streets the v shaped lights the clear window areas and the slender cab profile shows that this is a truck built for the city ready for work do you spend a big part of the workdays outside the cab

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web chassis data sheets powertrain specifications for volvo fl engines gearboxes power take offs rear axles rear axle ratios alternative fuels ready for alternative fuels all power levels for d5k and d8k engines are certified for synthetic diesel hvo there is a variant of our d8k 320 engine will run on pure biodiesel b100

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web the d5k240 eu6scr is an in line four cylinder diesel engine with a displacement of 5 1 litres equipped with a turbocharger and intercooler the engine produces 240 hp and 900 nm of torque the engine meets the eu exhaust emissions requirements according to the euro 6 standards

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web 105 175 kw crankshaft power 5 13 litres displacement litres dealer locator off road engine range the volvo penta d5 industrial engine is an in line 4 cylinder 5 1 liter engine it features common rail fuel injection overhead camshaft and fixed geometry turbo and the optimized scr dpf technology contributes to efficient combustion

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