

Airways Smooth Muscle: Modelling the Asthmatic Response *In Vivo*

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Airways Smooth Musclemodelling The Asthmatic Response In V

Brendan G. Carr



Airways Smooth Muscle modelling The Asthmatic Response In Vivo:

Airways Smooth Muscle: Modelling the Asthmatic Response In Vivo David Raeburn, Mark A. Giembycz, 2012-12-06 Building on the existing titles in the Airways Smooth Muscle sub series the sixth volume explores physiological and pharmacological processes in the lung in vivo The various animal models available for studying the bronchospasm and inflammation associated with human asthma are thoroughly reviewed by internationally recognised scientists Specific chapters focus on the problems of administering drugs to animal airways the mechanics of assessing lung function in the models and describe in detail the species used from rodents to primates The use of genetically altered animals an area of particular interest to molecular biologists is also considered in depth This up to date and extensively referenced work will prove invaluable to pharmacologists physiologists and other biological scientists at all levels in academia and in the pharmaceutical industry *Forthcoming Books* Rose Arny, 1996-06 *The Lancet*, 1996-07 **Arzneimittel Forschung**, 1997 *Airways Smooth Muscle* David Raeburn, Mark A. Giembycz, 1996-05 For researchers using animals to investigate human asthma explains physiological and pharmacological process in the lung and reviews the animal models available for studying the bronchospasm and inflammation associated with human asthma Also discusses such methodological aspects as administering drugs to animal airways and the mechanics of assessing lung function Also considers the use of genetically altered animals as research models The sixth volume in the sub series Annotation c by Book News Inc Portland Or

Medical and Health Care Books and Serials in Print, 1997 *Book Review Index*, 1997 Every 3rd issue is a quarterly cumulation **Books in Print Supplement**, 2002 **Subject Guide to Books in Print**, 1997 **Subject Guide to Children's Books in Print 1997** Bowker Editorial Staff, R R Bowker Publishing, 1996-09 **Verzeichnis lieferbarer Bücher**, 2002 *Airway Smooth Muscle* Devendra K. Agrawal, Robert G. Townley, 2024-12-20 Airway smooth muscle plays a dominant role in bronchial asthma as well as a significant role in various pulmonary diseases such as chronic bronchitis cystic fibrosis and emphysema Myogenic neurogenic and humoral factors control airway smooth muscle tone This text provides a state of the art summary and critical discussion of airway smooth muscle from a multidisciplinary point of view Topics discussed include morphology biochemical regulation mechanical and electrophysiological behavior and reflex control of smooth muscle the epithelium derived relaxing factor and methods to measure smooth muscle function in vivo in humans and experimental animals as well as in vitro in isolated airway tissues Also discussed are calcium and potassium channels and receptors for adrenergic cholinergic and histaminergic systems in modulating receptor response coupling in airway smooth muscle *Airway Smooth Muscle Modulation of Receptors and Response* provides essential information for researchers teachers pulmonary specialists and allergists and students interested in learning about airway smooth muscle

Airway Smooth Muscle in Asthma and COPD Kian Fan Chung, 2008-04-30 In this book leading researchers in medicine and molecular pharmacology explain the cellular mechanisms that control airway smooth muscle The means by

which these are disrupted in disease and the pharmacologic strategies by which they may be modified are discussed and future therapeutic interventions are identified. Aimed at specialists in pulmonology, this volume provides the clinician with the most up to date information on one of the core physiological processes in airway disease and offers insights into current and future approaches to management. Authoritative update on key mechanisms of airway constriction in Asthma and COPD. Relates latest research to bronchodilator therapy. Multi contributed text co coordinated by two of the leading authorities in the field. **Airway Smooth Muscle Cell Responses in Relation to Mediators of Asthma** Sue MacKay, 2001 *Airway*

Wall Remodelling in Asthma A. G. Stewart, 2020-10-28 Asthma is a disease of high prevalence that has shown a trend toward increasing incidence, morbidity and mortality over the last three decades despite apparently effective drug treatments and increasing awareness of the need for better disease management. Often the inflammatory component of asthma is studied, however the tissue remodelling process is a significant process that should not be overlooked. This valuable reference synthesizes current data and concepts developed to determine the relationship between airway wall remodelling and the pathogenesis of asthma. It discusses evidence for structural changes in asthmatic airway, the relationship between airway thickening and hyperresponsiveness, the relationship between cytokine production and tissue remodelling and inflammation, the significance of epithelial changes and the extracellular matrix and in vivo and in vitro experimental approaches to the assessment of remodelling. Pharmacological and biochemical mechanisms that control cell proliferation are also examined. The consequences of airway wall remodelling for airway hyperresponsiveness is the unique focus of this volume, offering a fresh perspective of advances in asthma research. *Investigating the Integrative Role of Substrate Stiffness, Strain, and Tone on the Functional and Phenotypic Response of Airway Smooth Muscle in Asthmatic Airways* Rachel Wise, 2015

Human Airway Smooth Muscle Promotion of Mast Cell Survival and Proliferation, and Altered State of Activation in Asthma Fay Marie Hollins, 2009 Asthma is a condition that is characterized by variable airflow obstruction, airway hyperresponsiveness, AHR, chronic airway inflammation and airway remodeling. There is microlocalisation of mast cells within the airway smooth muscle (ASM) bundle in asthma at a level significantly above health and other respiratory diseases. These cells are recruited and their survival promoted. However their functional consequences have yet to be discovered. AHR in asthma is a result of increased responsiveness of the ASM to agonist and has found to increase with localized mast cell numbers. This phenomenon could be a result of an intrinsic abnormality or of local effects. So far it has yet to be elucidated. We sort to examine this phenomenon of the presence of mast cells within the ASM and the increased responsiveness of the ASM. Mechanisms involved in sustaining mast cell numbers and the intrinsic differences of ASM between asthma and health ASM had the ability to maintain survival and promote proliferation of co cultured mast cells, a mechanism supported by the actions of stem cell factor (SCF), interleukin IL 6 and cell adhesion molecule CADM 1. There was a physical interaction in mast cell adhesion to ASM between CADM1 and the SCF receptor. The co culture also enhanced constitutive mast cell

degranulation Intracellular calcium levels of ASM from asthmatic patients at rest were found to oscillate to a great degree Following stimulation with agonist the ASM gave a reduced intracellular calcium response However their contractile ability measured still remained greater than ASM isolated from non asthmatic subjects SCF IL 6 and CADM1 supported the survival of mast cells co cultured with ASM Although ASM from asthmatic subjects produce a reduced intracellular calcium response to agonist at baseline these cells are more activated and they still retain their increased contractile response Mechanisms which may contribute to the altered airway physiology in asthma

Airways Smooth Muscle David Raeburn, Mark A. Giembycz, 2013-03-09 Many factors may influence the release of neurotransmitters from airway nerves 1 This is likely to be important in physiological control of airway functions and may be particularly relevant in airway diseases such as asthma and chronic obstructive pulmonary disease COPD Neural elements in airways interact in a complex manner and the activation of certain neural pathways may profoundly influence the release of transmitters from other neural pathways Similarly inflammatory mediators released from inflammatory cells in the airways may also modulate neurotransmitter release There are marked differences between species in airway innervation and in neuromodulatory effects and wherever possible studies in human airways have been emphasised although information on neuromodulation in human airways is somewhat limited at present Release of neurotransmitters from nerve terminals occurs via a Ca^{2+} dependent secretion evoked by a nerve action potential but may also be evoked experimentally by a high extracellular K^{+} concentration which directly depolarises the nerve terminal membrane Modulation refers to the alteration of neurotransmitter release which may either be increased facilitation or reduced inhibition by the action of a particular agent thus changing the magnitude of the neurally mediated response Such agents would normally act on receptors on the nerve terminal which are referred to as pre junctional or presynaptic receptors in contrast to post junctional or post synaptic receptors located on the target cells which are influenced by that particular transmitter

Modulation of Airway Smooth Muscle Secretory Responses by Components of Airway Wall Extracellular Matrix Dr Dilys Lai, King's College London. Guy's, King's and St. Thomas's School of Medicine, 2004

The Airway Smooth Muscle Response to Strain and the Relationship with Airway Hyper-responsiveness Thomas Kenneth Ansell, 2014 Truncated abstract Airway hyper responsiveness AHR i.e excessive bronchoconstriction to an inhaled bronchial challenge is believed to be a major contributor to airflow limitation a primary characteristic of asthma The cause s of AHR remain unclear but likely involve abnormalities in airway smooth muscle ASM and or airway wall structure function More recently the dynamic mechanical environment of the lung has been identified as an important regulator of airway responsiveness and may be susceptible to inflammatory disease processes contributing to AHR In normal healthy individuals deep inspiration DI produces a transient reversal of bronchoconstriction i.e bronchodilation The underlying mechanism by which DI produces bronchodilation is thought to involve stretch induced relaxation of ASM due to perturbed cross bridge binding and or de polymerisation of the contractile apparatus However the bronchodilatory response to DI is attenuated or

abolished in patients with asthma and this may contribute to the development of AHR The general aim of this thesis is to better understand the ASM response to strain during breathing manoeuvres and the relationship with AHR

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