

Airways Smooth Muscle: Structure, Innervation and Neurotransmission

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Airways Smooth Muscle

**Devendra K. Agrawal, Robert G.
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Airways Smooth Muscle:

Airway Smooth Muscle in Health and Disease R.F. Coburn, 2012-12-06 I organized this book because there is a need to put together in book form recent advances in our knowledge of how airway smooth muscle works in health and in disease. After a period when it seemed that progress was very slow, there has been in the past few years an incredibly rapid gathering of knowledge in this area. In particular, our understanding has improved regarding the cascades of events that follow the initial binding of agonist to plasma membrane receptors and that lead to the cross-bridge movements that determine contraction. This advance in our knowledge was stimulated by use of single and whole cell channel recordings of plasma membrane currents and by description of the β_3 receptor GTP binding protein adenylate cyclase cAMP coupling system which serves as a model for other coupling mechanisms. The discovery of the receptor-activated inositol phospholipid transduction system has greatly stimulated research and led to advances in our understanding of mechanisms involved in smooth muscle contraction. Major advances were also triggered by the development of indicators for measuring free cytosolic calcium concentration and starting the unraveling of the events involved in Ca-dependent activation of contractile proteins. Although most of the studies that led to our current understanding of these areas were performed on non-airway smooth muscle, these studies usually add to our understanding of airway smooth muscle and there is an enlarging body of data that have been obtained on airway smooth muscle.

Airways Smooth Muscle: Development, and Regulation of Contractility

David Raeburn, Mark A. Giembycz, 2013-03-08 Most studies on autonomic innervation of smooth muscle have focused on the short-term mechanisms involved in neurotransmission in physiological and pathophysiological conditions. However, recent observations of the long-term plasticity of this system, i.e. its capacity for regeneration and for compensatory change in pattern of innervation and expression of cotransmitters and receptors in ageing, following surgery, trauma, or in disease, have indicated that an understanding of the mechanisms involved could influence the design of therapeutic regimes. There is increasing evidence for long-term communication between nerves and smooth muscle cells during development and throughout adult life. To date, the trophic interactions between nerves and airway musculature have attracted little interest; consequently, much of the information presented here is drawn from studies using other smooth muscles. However, the questions posed about trophic interactions during development apply as much to airways smooth muscle neuroeffector systems as to other autonomic neuroeffector systems. These are: i) How do developing nerve fibres know where to go and how do they reach their target sites? ii) What determines the density and pattern of innervation at reaching the effector? iii) How do the nerves survive and maintain their position once established? iv) What factors influence neurochemical differentiation such that genetically multipotential neurones are triggered to synthesize one or combinations of neurotransmitters? v) What influence do nerves have on the structure, function, and receptor expression of their effector cells? vi) How do diseases interrupt these processes? see 1

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 *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 Ca²⁺ 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 **Airways Smooth Muscle: Biochemical Control of Contraction and Relaxation** David Raeburn, Mark A. Giembycz, 2013-11-11 **Physiologic Basis of Respiratory Disease** Qutayba Hamid, 2005 Accompanying CD ROM contains the complete text and illustrations in fully searchable PDF files Page 4 of cover *Fetal and Neonatal Physiology E-Book* Richard Polin, Steven H. Abman, David H. Rowitch, William Benitz, 2016-05-11 *Fetal and Neonatal Physiology* synthesizes this knowledge into definitive guidance for today's busy practitioner Offers definitive guidance on how to effectively manage the many health problems seen in newborn and premature infants Chapters devoted to clinical correlation help explain the implications of fetal and neonatal physiology Allows you to apply the latest insights on genetic therapy intrauterine infections brain protection and

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Asthma and COPD Peter J. Barnes, Jeffrey M. Drazen, Stephen I. Rennard, Neil C. Thomson, 2008-10-30 The Second Edition of Asthma and COPD Basic Mechanisms and Clinical Management continues to provide a unique and authoritative comparison of asthma and COPD Written and edited by the world's leading experts it continues to be a comprehensive review of the most recent understanding of the basic mechanisms of both conditions specifically comparing their etiology pathogenesis and treatments Each chapter considers Asthma and COPD in side by side contrast and comparison not in isolation in the context of mechanism triggers assessments therapies and clinical management Presents the latest and most comprehensive understandings of the mechanisms of inflammation in both Asthma and COPD Most extensive reference to primary literature on both Asthma and COPD in one source Easy to read summaries of the latest advances alongside clear illustrations

Biomedical Index to PHS-supported Research, 1993 *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

Airways and Vascular Remodelling in Asthma and Cardiovascular Disease Clive Page, Judith Black, 1994-11-10 Vascular diseases and asthma

are two common diseases associated with considerable morbidity and mortality Both are chronic each has an inflammatory component both are accompanied by remodelling of hollow tubes and both are amenable to early intervention This book compares and contrasts research progress made in each area including our current understanding of the pathophysiology involved and the results of large scale multicentre trials **World Equine Airways Symposium** ,2005 Airways Smooth Muscle David Raeburn,1994 *Pathophysiology of the Gut and Airways* P. L. R. Andrews,J. G. Widdicombe,1993 Part of a series designed to clarify the complex and difficult areas of physiology this book deals with the pathophysiology of gut and airways Topics covered include hypersecretion in the airways and the pathophysiology of cystic fibrosis in the gastrointestinal tract Physiology and Pharmacology of the Airways Jay A. Nadel,1980 American Journal of Veterinary Research ,2017 Volumes for 1956 include selected papers from the proceedings of the American Veterinary Medical Association

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