

# Airways smooth muscle - development, and regulation of contractility

## Birkhäuser Verlag - Influence of Cartilage on Airways Smooth Muscle Contractility

Description: -

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Free trade -- Mexico.

Agriculture -- Economic aspects -- Mexico.

Recovery

Reference

Muscle Contraction -- physiology.

Muscle, Smooth -- physiology.

Respiratory Airflow -- physiology.

Respiratory Muscles -- physiology.

Muscle contraction -- Regulation.

Airway (Medicine) -- Physiology.

Smooth muscle -- Physiology.

Respiratory muscles -- Physiology. Airways smooth muscle -

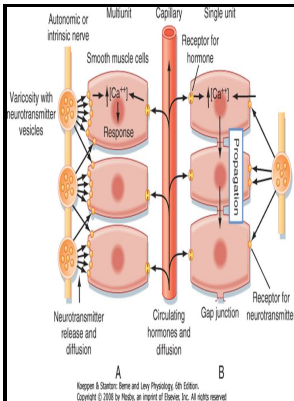
development, and regulation of contractility

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Respiratory pharmacology and pharmacotherapy Airways smooth muscle - development, and regulation of contractility

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Together, these results suggest that, apart from a paracrine mode of regulation, ASM is subjected to an endocrine mode of regulation.

### Airways Smooth Muscle: Development, and Regulation of Contractility

Most studies on autonomic innervation of smooth muscle have focused on the short-term mechanisms involved in neurotransmission in physiological and pathophysiological conditions. Found in the trachea and along the bronchial tree. Vasconcelos LHC, Silva MDCC, Costa AC, de Oliveira GA, de Souza ILL, Righetti RF, Queiroga FR, Cardoso GA, Silva AS, da Silva PM, Vieira GC, Tibério IFLC, Madruga MS, Cavalcante FA, da Silva BA.

### Regulation of the contractile element of airway smooth muscle

ASM may also serve immunomodulatory functions, which are mediated by the secretion of pro-inflammatory mediators such as cytokines and chemokines. Displays phenotypic modulation of mechanical, synthetic and proliferative responses. The physiological significance of these other epithelial functions is not yet clear but may be important in regulating the function of various cell types within the lung.

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Studies using animal models and human ASM and airways have characterized inflammatory and other mechanisms underlying increased reactivity to contractile agonists and reduced bronchodilator efficacy of  $\beta$  2-adrenoceptor agonists in severe diseases. This adds an additional challenge to the continuing effort to define the messengers and regulatory proteins that couple activation of membrane receptors to the contractile element in airway smooth muscle.

### Effects of Ageing upon Airways Smooth Muscle Contractility

Accumulating evidence suggests that changes in ASM responsiveness contribute to the pathophysiology of lung diseases with lifelong health impacts. In this review, I suggest that the endocrine mode of regulation of ASM contractility is overlooked.

### **Regulation of the contractile element of airway smooth muscle**

Most studies on autonomic innervation of smooth muscle have focused on the short-term mechanisms involved in neurotransmission in physiological and pathophysiological conditions. Gienbycz Series Title Copyright 1994 Publisher Birkhäuser Basel Copyright Holder Birkhäuser Verlag eBook ISBN 978-3-0348-7408-3 DOI 10. Regulation of myosin light chain kinase, identification of the sites phosphorylated on the regulatory myosin light chains, and the effect of myosin phosphorylation on stress development and crossbridge cycling rates have all been studied in some detail.

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