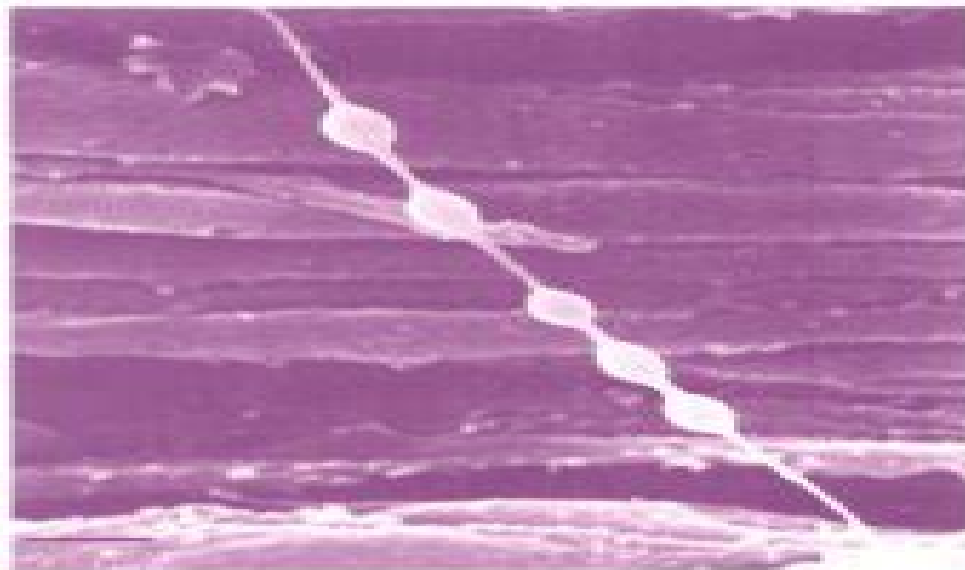


# The Airways

Neural Control in Health and Disease



edited by

**Michael A. Kaliner**

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# Airways Neural Control In Health And Disease

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## **Airways Neural Control In Health And Disease:**

**The Airways Regulation of Contractility** Michael A. Kaliner, Peter J. Barnes, 1987-12-01 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. Aspects of Synaptic Transmission T. W. Stone, 1991. A collection of reviews on selected areas of synaptic transmission from neuroscientists in a number of areas of work in the nervous system and related disciplines. Five areas are covered: long term potentiation, galanin, autonomic opioids and 5-hydroxytryptamine.

**Airway Obstruction and Inflammation** D. Olivieri, S. Bianco, 1990-04-23

**Drug Delivery to the Lung** Hans Bisgaard, Chris O'Callaghan, Gerald C. Smaldone, 2001-10-02 This book focuses on the aerosol treatment of lung diseases; recent improvements in the understanding of proper dosage and major innovations in device technology applied to clinical practice. Examines the behavior of inspired spherical particles in the respiratory tract. Featuring over 1300 references, drawings, tables and photographs.

**The Immunological Basis of Asthma** Bart Lambrecht, Henk Hoogsteden, Zuzana Diamant, 2003-02-26 This text assesses the role of dendritic cells, T and B lymphocytes, epithelial and mast cells, eosinophils, neutrophils, macrophages and their products in the initiation and progression of airway inflammation, regulation and repair. It unveils advances in immunology and cell biology to generate new therapeutic regimens for inflammatory and allergic asthma.

**Asthma's Impact on Society** Kevin B. Weiss, 1999-10-27 One of the first comprehensive studies of the social and economic consequences of this chronic pulmonary illness. *Asthma's Impact on Society* assesses how communities, families and individuals confront asthma and try to minimize its deleterious effects. Written by over 25 highly esteemed experts. *Asthma's*

Impact on Society defines the con *Genetic Models in Cardiorespiratory Biology* Gabriel Haddad,2001-03-16 Focusing on the latest breakthroughs in genetic analysis and manipulation *Genetic Models in Cardiorespiratory Biology* extensively details how genetic model systems facilitate better comprehension of mammalian and human biology and disease Highlights studies of *Drosophila melanogaster* *Caenorhabditis C elegans* zebrafish and transgenic **Five-Lipoxygenase Products in Asthma** Jeffrey Drazen,2016-04-19 *Five Lipoxygenase Products in Asthma* offers an authoritative examination of the biochemistry basic pharmacology and clinical pharmacology of the leukotrienes with special emphasis on their role in asthma A critical reference for every asthma researcher and clinician *Five Lipoxygenase Products in Asthma* highlights agents and products **Particle-Lung Interactions** Peter Gehr,Joachim Heyder,2000-02-18 This wide ranging comprehensive reference presents the latest developments in aerosol science and interactions between particles and the respiratory tract utilizing an inter disciplinary approach that integrates advances in physics chemistry and engineering with the epidemiological and biomedical sciences and focusing on the dynamics of particl

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