

Airways Smooth Muscle: Structure, Innervation and Neurotransmission

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Airways Smooth Muscle Structure Innervation And Neurotransmission

Maria G. Belvisi, Jane A. Mitchell



Airways Smooth Muscle Structure Innervation And Neurotransmission:

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 *Cellular Mechanisms in Airways*

Inflammation Clive P. Page, Katharine H. Banner, Domenico Spina, 2013-03-11 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 **Methods in Pulmonary Research** Stefan Uhlig, Aubrey E.

Taylor, 2012-12-06 *Methods in Pulmonary Research* presents a comprehensive review of methods used to study physiology and the cell biology of the lung The book covers the entire range of techniques from those that require cell cultures to those using in vivo experimental models Up to date techniques such as intravital microscopy are presented Yet standard methods such as classical short circuit techniques used to study tracheal transport are fully covered This book will be extremely useful for all who work in pulmonary research yet need a practical guide to incorporate other established methods into their research programs Thus the book will prove to be a valuable resource for cell biologists who wish to use organs in their research programs as well biological scientists who are moving their research programs into more cell related phenomena

Nitric Oxide in Pulmonary Processes Maria G. Belvisi, Jane A. Mitchell, 2012-12-06 Nitric oxide is an endogenously produced gas with a wide range of biological effects and has been implicated in many physiological and pathophysiological processes. It is released by many cell types in various organs but is particularly important in the maintenance of normal lung function. Nitric oxide in exhaled breath has been identified as a marker for lung disease in some patients. Thus it is appropriate to consider the lung separately for the role and functioning of nitric oxide. The authors identify key areas in the history, biochemistry, physiology, pathophysiology, immunology and clinical applications of nitric oxide in the lung. The contents of this book will be of particular importance to scientists and clinicians with an interest in lung disease. Moreover, the authors encompass state of the art opinions of and rationale for the therapeutic potential of nitric oxide and its inhibitors. *Nitric Oxide and Free Radicals in Peripheral Neurotransmission* Stanley Kalsner, 2012-12-06 Nitric Oxide and Free Radicals in Peripheral Neurotransmission is a welcome addition to the literature and describes current research into the role of nitric oxide in the peripheral nervous system and its associated organs. Topics covered range from general consideration of nitrergic transmission in its broadest sense to elaboration of our current understanding of the role of nitric oxide in transmission in individual peripheral organs including its role as a backup or alternate as well as chief transmitter. The influence of nitric oxide and related compounds on the more conventional modes of autonomic transmission are also considered. Aimed at students and researchers in the areas of neuroscience and physiology. Nitric Oxide and Free Radicals in Peripheral Neurotransmission also covers the emerging role of abnormal nitric oxide function in disease states and where appropriate as potential avenues of therapy. *Airway Mucus: Basic Mechanisms and Clinical Perspectives* D.F. Rogers, Michael Lethem, 1997-09-23 Conceptually unsavoury airway mucus is vital to homeostasis in the respiratory tract. In contrast when abnormal mucus contributes significantly to the pathophysiology of a number of severe bronchial diseases including asthma, chronic bronchitis and cystic fibrosis. This volume provides wide ranging and in depth coverage of the scientific and clinical aspects of airway mucus. It commences with introductory chapters which address the biochemical and molecular biological basis of airway mucus and continues with comprehensive coverage of the various physiological and rheological aspects of respiratory secretions. The clinical aspects of the topic are then considered with chapters discussing the involvement of mucus secretions in bacterial infection and in hypersecretory diseases of the airway. The volume concludes with a discussion of the therapeutic aspects of the topic both in terms of the possible approaches to the treatment of mucus hypersecretion and the interaction of these drugs with airway mucus. Written by leading experts in the field each contribution provides a comprehensive review of its particular subject. Reflecting the latest advances in this important area of respiratory research this volume will be of great interest to scientists and clinicians working in the field of airway secretions and related areas. **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 **Gastroesophageal Reflux Disease and Airway Disease** Mark R. Stein,1999-02-04

Addressing the relationships between gastroesophageal reflux and airway diseases this pioneering reference is the only single source that serves as an intensive review of the subject providing a large spectrum of information facilitating proper diagnosis and treatment of GERD and GERD related disorders Focusing on dentition upper airway disease cough and lower airway disease and presented in a format ideal for primary care providers and specialists Gastroesophageal Reflux Disease and Airway Disease analyzes practical in office approaches to diagnosis provides guidelines for diagnostic modalities and treatment in all age groups clarifies when to consider surgical procedures highlights acid damage to the airway from the esophagus up to the incisors and down to the lungs alerts physicians to the warning signs of GERD in adult asthmatics contains a questionnaire that helps elicit a history of GERD related airway disease recommends pediatric medication dosing schedules discusses the benefits and limitations of performing laparoscopic surgical procedures in GERD patients explains paroxysmal laryngospasm and more Containing over 1100 references tables drawings and photographs Gastroesophageal Reflux Disease and Airway Disease is an essential reference for clinical immunologists and allergists pulmonologists physiologists gastroenterologists otolaryngologists pediatricians internists and family practitioners physician assistants nurse practitioners and medical students in these disciplines **Allergy and the Nervous System** J. Bienenstock,2013-03-07

In recent decades it has become increasingly clear that the immune and nervous systems communicate with each other in a bidirectional way The role of chronic stress in allergic disease and inflammation has been confirmed and raises the important question of how psychosocial factors influence the outcome of allergic conditions This book explains the roles of the autonomic peripheral and central nervous systems in allergy and asthma With contributions from leading authorities both clinicians and basic researchers it covers a wide range of topics from psychology over epigenetics to brain imaging The 15 invited reviews discuss topics such as the role of stress in allergy and asthma the concept of programming in utero and in childhood and adulthood the significance of neurotrophins and the involvement of the nervous system in the lung in asthma and lung inflammation The interactions between mast cells and the nervous system are examined as well as the role of the gut microbiome in regulating the hypothalamic pituitary adrenal axis and the stress response Further chapters are devoted

to neural and behavioral changes associated with food allergy the role of the neuroendocrine system in the skin and the way in which itch is processed by the brain Unique in its field this valuable volume is recommended reading not only for allergologists psychologists specializing in allergy and somatic manifestations respirologists and asthma researchers but for anyone interested in psychoneuroimmunology Middleton's Allergy 2-Volume Set A Wesley Burks, MD,N. Franklin Adkinson Jr., Jr. MD,Bruce S Bochner, MD,William W Busse, MD,Stephen T Holgate,Robert F Lemanske, Jr. MD,Robyn E O'Hehir, MD,2013-10-18 Boasting a worldwide reputation as the leading text in allergy and immunology Middleton s Allergy continues its steadfast tradition of providing comprehensive coverage of state of the art basic science as well as authoritative guidance on the clinical concepts of day to day diagnosis and management of allergic disorders Offering timely information that s suited for clinicians and researchers alike Middleton s is a user friendly and versatile source for the knowledge you need to provide optimal care to your patients A valuable source of reference and pre sifted information the editors are to be commending in keeping the book up to date and clinically valuable Reviewed by Immunology News March 2015 Stay on top of continuous new developments in clinical allergy and immunology through online access to the Expert Consult site which will feature regular updates as well as the fully searchable contents Find all of the information you need quickly and easily with a glossary of allergy and immunology terms highlighted key points for each chapter hundreds of crystal clear images with a full color format and access to relevant websites Apply the latest scientific knowledge and clinical applications with new chapters on Innate and Adaptive Immunity Immune Tolerance Immunobiology of IgE and Its Receptors Resolution of Allergic Inflammation and Particulate and Allergen Interactions plus sweeping updates throughout Take full advantage of the major advances in asthma pathogenesis and management with significant updates on diagnosis treatment and special aspects of asthma Obtain the best results from the newest therapeutics for allergic and immunologic diseases through an expanded discussion of immunotherapy that includes new chapters on Sublingual Immunotherapy Biologics and Immunosuppressives in Asthma and Alternative and Complementary Therapies **Asthma and Rhinitis** William W. Busse,Stephen T. Holgate,2008-04-30 The second edition of this highly acclaimed text has been extensively revised and greatly expanded to reflect the considerable advances made in our understanding of the mechanisms of asthma and rhinitis Containing the contributions of 242 experts of international standing presented in 133 chapters Asthma and Rhinitis provides an up to date authoritative reference for both the clinician and scientist The global approach given in this book mirrors the universal approach to the understanding of allergic disease The editors have carried out a thorough and radical revision of the content by adding 6 new sections and 44 new chapters Most of this expansion is due to greatly increased coverage of the clinical aspects of asthma with new sections on childhood asthma and on drug treatment each drug class has its own chapter Also the expansion of research into the genetic basis of asthma has necessitated a whole new section on Genetics comprising some six chapters There are also new chapters on adult onset asthma and the relationship of asthma to sinusitis A new

section on Asthma in Special Circumstances includes chapters on asthma in pregnancy asthma and surgery asthma in the elderly and asthma in the context of critical care In bringing the Second Edition fully up to date the book has inevitably increased in size and is now presented in two volumes The second edition of Asthma and Rhinitis will continue the tradition of its predecessor of providing an up to the minute reference for all those involved in the management of and research into asthma and rhinitis

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

Proinflammatory and Antiinflammatory Peptides Sami I. Said, 2020-11-25 Analyzes the role of peptides in promoting or suppressing inflammation Thoroughly examines the therapeutic potential of key peptides analogs agonists and antagonists that influence cell injury and repair

Allergy and Allergic Diseases Judah A. Denburg, 2013-03-09 Allergy and Allergic Diseases has been organized to provide an up to date clinically relevant compilation of one of the most exciting areas of investigation in medicine today allergic disease especially as it pertains to the skin airways and bowel With the dramatic rise in the incidence of various allergic disorders worldwide and the coming of age of the discipline of Clinical Immunology and Allergy the interface between basic and clinical science in this arena demands highlighting in this comprehensive new synthesis It is with the hope of filling this evident need that Allergy and Allergic Diseases The New Mechanisms and Therapeutics has been put together The book's content is divided into both basic and clinical sections with emphasis on various components of the immune and inflammatory response as they relate to the development of allergic disease Topics span the range from molecular biology to clinical symptomatology with an effort to make this of interest to as broad a

constituency as possible This book will therefore be of substantial interest to specialists in Clinical Immunology and Allergy scientists studying the cellular and molecular biology of inflammation and immunity as well as internists teachers developers of medical school curricula and members of industry focused on drug discovery and therapeutics Indeed a separate section has been added to deal with some specific issues in this latter field Fraser and Paré's Diagnosis of Diseases of the Chest Richard S. Fraser,1999 Presenting the 4th Edition of this renowned text covering all aspects of pulmonary diagnosis Provides precise and detailed descriptions of epidemiology pathogenesis pathology pathological radiological correlations and clinical manifestations of pulmonary disease This edition is extensively revised and updated to include new chapters on transplantation and pulmonary manifestations of HIV Generously illustrated with nearly 4 000 superb illustrations this comprehensive text provides hundreds of state of the art radiological images to aid in diagnosis Also features valuable tables of differential diagnosis based on radiographic and CT findings **Chronic Lung Disease in Early Infancy** Richard D. Bland,Jacqueline J. Coalson,1999-09-21 This definitive volume presents the clinical and pathological features of bronchopulmonary dysplasia a disease that accounts for the majority of long term hospitalizations slow growth and recurrent early childhood respiratory ailments that are common in low birth weight newborns Highlights relevant animal models for studying the process of *Air Pollution and Health* Robert L. Maynard,Stephen T. Holgate,Hillel S. Koren,Jonathan M. Samet,1999-04-21 Concern about the impact of air pollution has led governments and local authorities across the world to regulate among other things the burning of fossil fuels industrial effluence cigarette smoke and aerosols This legislation has often followed dramatic findings about the impact of pollution on human health At the same time there have been significant developments in our ability to detect and quantify pollutants and a proliferation of urban and rural air pollution networks to monitor levels of atmospheric contamination Air Pollution and Health is the first fully comprehensive and current account of air pollution science and its impact on human health It ranges in scope from meteorology atmospheric chemistry and particle physics to the causes and scope of allergic reactions and respiratory cardiovascular and related disorders The book has substantial international coverage and includes sections on cost implications risk assessment regulation standards and information networks The multidisciplinary approach and the wide range of issues covered makes this an essential book for all concerned with monitoring and regulating air pollution as well as those concerned with its impact on human health Only comprehensive text covering all the important air pollutants and relating these to human health and regulatory bodies Brings together a wide range of issues concerning air pollution in an easily accessible format Contributions from government agencies in the US and UK provide information on public policy and resource networks in the areas of health promotion and environmental protection *Encyclopedia of Respiratory Medicine* Geoffrey J. Laurent,Stephen D. Shapiro,2006

Asthma Peter J. Barnes,1997 Edited by four of the world's leading pulmonary medicine investigators this reference provides clinicians and researchers with a comprehensive and in depth resource on asthma With increasing incidence

prevalence and mortality in many parts of the world asthma continues to perplex the medical community Despite an improved and expanded understanding of the epidemiology and pathobiology of this common clinical syndrome and the many precise and targeted therapies asthma remains a challenge The myths facts research and future of asthma and its management are all examined

Gray's Anatomy E-Book Susan Standring, 2021-05-22 Susan Standring MBE PhD DSc FRC Hon FAS Hon FRCS Trust Gray's Building on over 160 years of anatomical excellence In 1858 Drs Henry Gray and Henry Vandyke Carter created a book for their surgical colleagues that established an enduring standard among anatomical texts After more than 160 years of continuous publication Gray's Anatomy remains the definitive comprehensive reference on the subject offering ready access to the information you need to ensure safe effective practice This 42nd edition has been meticulously revised and updated throughout reflecting the very latest understanding of clinical anatomy from the world's leading clinicians and biomedical scientists The book's acclaimed lavish art programme and clear text has been further enhanced while major advances in imaging techniques and the new insights they bring are fully captured in state of the art X ray CT MR and ultrasonic images The accompanying eBook version is richly enhanced with additional content and media covering all the body regions cell biology development and embryogenesis and now includes two new systems orientated chapters This combines to unlock a whole new level of related information and interactivity in keeping with the spirit of innovation that has characterised Gray's Anatomy since its inception Each chapter has been edited by international leaders in their field ensuring access to the very latest evidence based information on topics Over 150 new radiology images offering the very latest X ray multiplanar CT and MR perspectives including state of the art cinematic rendering The downloadable Expert Consult eBook version included with your print purchase allows you to easily search all of the text figures references and videos from the book on a variety of devices Electronic enhancements include additional text tables illustrations labelled imaging and videos as well as 21 specially commissioned Commentaries on new and emerging topics related to anatomy Now featuring two extensive electronic chapters providing full coverage of the peripheral nervous system and the vascular and lymphatic systems The result is a more complete practical and engaging resource than ever before which will prove invaluable to all clinicians who require an accurate in depth knowledge of anatomy

The Enigmatic Realm of **Airways Smooth Muscle Structure Innervation And Neurotransmission**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Airways Smooth Muscle Structure Innervation And Neurotransmission** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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