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# **Airway Smooth Muscle in Health and Disease**

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**Edited by  
Ronald F. Coburn**

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# Airway Smooth Muscle In Health And Disease

**Ali Salajegheh**



## **Airway Smooth Muscle In Health And Disease:**

*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  $\text{I}_3$  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 nonairway 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. 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. **Pulmonary Biology in Health and Disease** Edward E.

Bittar, 2007-05-28 *Pulmonary Biology in Health and Disease* was conceived as a companion to a handful of expensive, multivolume textbooks. This is part of the promising trend to publish shorter textbooks on the subjects of lung biology and remodeling. Whoever is familiar with human biology and the far reaching consequences of the genome and postgenome revolutions is apt to concede that the centerpiece in remodeling lies in the field of molecular cardiobiology. The field of molecular cardiobiology includes the syndrome of chronic heart failure as well as ischemic cardioprotection. By analogy, the centerpiece

in pulmonobiology is chronic asthma Key topics in the present volume include signaling mechanisms regulating the endothelium and smooth muscle cells in inflammatory cells mediators airway surface liquid and pharmacological therapy that focuses on how injured airways are altered Written primarily for predoctoral and postdoctoral graduates in the basic medical sciences the medical student and postdoctoral physician graduates in the allied sciences nurses pulmonologists and physicians in critical care medicine this book provides many of the fundamentals of contemporary pulmonology It is divided into several parts devoted to the control of respiration arterial chemoreceptors muscles of ventilation pulmonary physiology and gas exchange in health exercise and disease Special emphasis is placed on emphysema and its pathobiology acute lung injury asthma and inhaled toxicants Because the field is always evolving each chapter includes recommended readings that lead the reader to sources of additional information such as the review on remodeling of the blood gas barrier by West and Mathieu Costello

**Inhalation Aerosols** Anthony J. Hickey, 1996-06-07 This unique reference integrates the theory and practical use of aerosols in inhalation therapy into a single resource presenting the physical chemistry of formulation the physics of aerosol generation aerodynamic behavior and therapeutic implications Offers up to date techniques for droplet and particle generation including air blast and ultrasonic nebulizers propellant driven metered dose inhalers dry powder inhalers and electrospray systems

**Research Awards Index**, 1989 **NIH Guide for Grants and Contracts**, 1984

Ernsting's Aviation and Space Medicine David P. Gradwell, Elizabeth S. Wilkinson, 2025-05-30 Ernsting's Aviation and Space Medicine applies current understanding in medicine physiology and the behavioural sciences to the medical challenges and stresses that are faced by both civil and military aircrew and their passengers on a daily basis The sixth edition of this established textbook and clinical reference has been revised and updated by a multidisciplinary team of experienced contributors many new to this edition The structure of the book has been refined bringing related chapters together where appropriate while the clinical content has been carefully streamlined in line with the specific requirements of the aviation medicine practitioner and adviser with new chapters added on Commercial Space Travel Skin Disease and Women's Health Key Features Convenient embraces all aspects of aviation medicine in a single volume divided into four parts for ease of reference Aviation Physiology Aircrew Systems Space Physiology Medicine Clinical Aviation Medicine and Operational Aviation Medicine Comprehensive covers all forms of military and passenger carrying aircraft including issues surrounding passenger safety and transport of the sick and injured Aids detailed understanding focuses on the principles underlying the standards in the field rather than just the standards themselves Applicable worldwide addresses international issues including worldwide regulation of medical standards and travel and disease Accessible chapter summaries enable rapid assimilation of key points while key references and suggestions for further reading encourage in depth learning eBook included text fully online and searchable via VitalSource eBook The text remains the recommended coursebook for those studying for the Diploma in Aviation Medicine of the Faculty of Occupational Medicine of the Royal College of Physicians

recognized worldwide as an exemplary standard in the field and for similar worldwide qualifications It is an essential companion for all civil and military aviation medicine practitioners both when preparing for professional examinations and in daily practice and for those in the many disciplines of the behavioural and life sciences that include some study of aviation its physiology and related issues It is also recommended reading for those with a wider interest in the medical problems of professional or recreational flying air transport and the aviation industry

**Transient Receptor Potential Canonical Channels and Brain Diseases** Yizheng Wang,2017-05-15 This book discusses the latest findings on the physiological and pathological functions of transient receptor potential canonical classical TRPC proteins in the brain In addition to reviewing the functions of TRPCs in brain development and neuron transmission it mainly covers the potential roles of TRPCs in brain disorders TRPC proteins belong to the TRP channel superfamily which has around 30 members Just like TRP channels TRPCs are non selectively permeable to cations with a selectivity of calcium over sodium that varies among different members The TRPC subfamily consists of six members grouped on the basis of the similarities in gene sequence and protein structure in mammals What sets TRPCs apart from other subfamilies in TRPs is that their activation stimulated by a membrane receptor phospholipid C PLC cascade contributes to the slow and sustained elevation of intracellular free calcium Calcium ions one of the most important types of second messengers mediate a variety of physiological functions in the brain including progenitor cell proliferation dendritic formation synaptic transmission and neuronal survival All TRPCs except TRPC7 have been found in various regions of the brain including the cerebrum cerebellum forebrain and hippocampus This book provides students and investigators with comprehensive information on the regulation function and potential of TRPCs and brain diseases in order to attract more attention to this field

*Lung Growth and Development* John A. McDonald,2024-11-01 Reflects the explosion of information and technological breakthroughs that have facilitated investigations into the development of the lung including recombinant DNA technology molecular genetics transgenics and advances in lung cell and molecular biology Provides nearly 2800 bibliographic citations and over 170 tables drawings and x rays to help clarify specific discussions

**SARS-CoV-2: From Genetic Variability to Vaccine Design** Indrajit Saha,Dariusz Plewczynski,Nimisha Ghosh,2022-10-07

**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 *The American Review of Respiratory Disease* ,1990 Includes Abstracts section previously issued separately **Muscarinic Receptors in Airways**

**Diseases** Johan Zaagsma,Herman Meurs,Ad F. Roffel,2001 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 1 *American Journal of Respiratory and Critical Care Medicine* ,2008 *Intra/Extracellular Dynamics of the Respiratory System and Global Airway Disease* De Yun Wang,Thai Tran,Wei-jie Guan,2020-09-02 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

**Canadian Journal of Physiology and Pharmacology** ,2007-07 *Angiogenesis in Health, Disease and Malignancy* Ali Salajegheh,2016-03-10 This book is about Angiogenesis A process in which new vasculature is formed from pre existing capillaries Angiogenesis process is associated with the proliferation and growth of both physiologically normal and neoplastic tissues through the formation of vascular supply essential for delivering growth requirements such as oxygen and nutrients The book describes more than 100 genes and their key regulatory functions in the context of normal healthy condition disease and malignancy cancer proliferation and progression New insights into the role of angiogenesis and the therapeutic inhibition of its regulators are investigated due to the great potential for exploitation in the development of a novel treatment

for cancer New scientists junior researchers and biomedical science students will find this book an invaluable introductory reference to their insight about angiogenesis and angiogenic role of more than 100 angiogenes and their role in healthy disease and malignant conditions *Mitochondrial Signaling and Regulation* Seyyed Shamsadin Athari,Entezar Mehrabi Nasab,2025-09-26 Mitochondrial Signaling and Regulation Immune Responses and Diseases delves into the latest research on molecular pathophysiology mechanisms and cell signaling pathways in the pathogenesis of diseases via mitochondrial regulation This comprehensive study underscores the importance of mitochondria in cellular processes and their role in disease development Early chapters discuss the crucial role regulation and crosstalk of mitochondria highlighting their significance in maintaining cellular health The exploration of mitochondria mutations and mitochondria related diseases follows providing a detailed understanding of the genetic aspects involved Final chapters focus on mitochondria s involvement in immune responses and allegro inflammation presenting the intricate connections between mitochondrial function and the immune system The book also explores the use of biotechnology in developing new treatments and targeted therapies against mitochondrial dysfunction This resource sets the foundation for new classifications prevention methods therapies and treatments of mitochondria related diseases making it invaluable for scientists and researchers dedicated to this field Covers how the regulation of mitochondria influences immune responses and diseases Presents new cell signaling pathways to pioneer drug development and innovative therapies Reviews the latest research on diagnoses treatment prevention and controlling of diseases via mitochondrial regulation **Interventional Pulmonology and Pulmonary Hypertension** Theodoros Aslanidis,2020-01-29 This book published by IntechOpen focuses on interesting aspects of pulmonary medicine The first section of the book is dedicated to interventional pulmonology and includes updates on bronchial thermoplasty virtual bronchoscopy and endobronchial ultrasound The second section highlights special aspects of pulmonary circulation and pulmonary hypertension Throughout the book the authors offer us not only a vigorous review of the current literature but also a research path to further advancement **Ultraviolet Light in Human Health, Diseases and Environment** Shamim I. Ahmad,2017-11-08 This book is about the roles and importance of Ultraviolet UV light from sun and from man made UV lamps in our daily life on health and diseases also its application in sterilization and treatment The key words are reactive oxygen species DNA damage UV mutagenicity skin cancers polymorphous light eruption Xeroderma pigmentosum vitiligo psoriasis rheumatoid arthritis diabetes mellitus metabolic syndromes cardiovascular diseases dermatology photobiology photodermatosis vitamin D synthesis vitamin D efficiency water sterilization blood sterilization phototherapies skin tanning and UV dosimeter The book starts with introduction to UV light and the history of development of UV lamps and its applications It then moves to describing the interaction of this light with biological components and the production of reactive oxygen species their roles in cell signaling cellular defense from foreign invaders in mutagenesis leading to skin diseases including vitiligo polymorphous light eruption and various forms of skin cancer Then

it presents the synthesis and importance of UV light and diseases induced due to the deficiency of vitamin D Roles of UV light in sterilization disinfection phototherapies are depicted in the next part and finally use and abuse of UV light in tanning salon and the availability and importance of use of UV dosimeter are highlighted The three main focuses of this book are Damage to biological systems by UV light leading to certain skin diseases most importantly skin cancers Importance of UV light in the in vivo synthesis of vitamin D when human bodies are exposed to it Diseases caused due to the deficiency of vitamin D and the use of UV lamps in phototherapy and sterilization processes The editor has considerable experience in publishing medical books and has used it critically selecting the matters which will attract the readers from many areas of medical and non medical fields It is hoped that the materials presented in this book will give great benefit and will stimulate both novice and expert researchers in the field The book gives excellent overviews of the current status of research and pointers to the future research achievements Clinicians medical general practitioners technicians and staff working in UV related industries and especially those working in tanning salon should benefit from the information presented in safe handling of this light

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