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MUCUS HYPERSECRETION IN RESPIRATORY DISEASE



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Mucus Hypersecretion In Respiratory Disease

Derek J. Chadwick, Jamie A. Goode



Mucus Hypersecretion In Respiratory Disease:

Mucus Hypersecretion in Respiratory Disease Derek J. Chadwick, Jamie A. Goode, 2003-07-07 A number of chronic respiratory diseases including chronic bronchitis asthma cystic fibrosis and bronchiectasis are characterized by mucus hypersecretion Following damage to the airway epithelium a repair process of dedifferentiation regenerative proliferation and redifferentiation takes place that is invariably accompanied by mucus hypersecretion as a key element in the host defence mechanism In chronic respiratory diseases however excessive mucus production leads to a pathological state with increased risk of infection hospitalization and morbidity An understanding of the mechanisms that underlie and maintain this hypersecretory phenotype is therefore crucial for the development of rational approaches to therapy Despite a high and increasing prevalence and cost to healthcare services and society mucus hypersecretion in chronic respiratory disease has received little attention until recently probably because of the difficulties inherent in studying this pathology Only in the last few years have some of the genes involved in mucus secretion been characterized The recent availability of genomic sequence information and specific antibodies has led to an explosion of interest in this area making this publication particularly timely This book draws together contributions from an international and interdisciplinary group of experts whose work is focused on both basic and clinical aspects of the problem Coverage includes epidemiology airways infection and mucus hypersecretion the genetics and regulation of mucus production models of mucus hypersecretion and the implications of new knowledge for the development of novel therapies Recent Advances in the Pathophysiology of COPD Trevor T. Hansel, Peter J. Barnes, 2012-12-06 Chronic obstructive pulmonary disease COPD ranges amongst the commonest diseases in the world The relentless progression of the disease causes a pressing need for a better understanding of and therapies for COPD This volume provides state of the art information on the pathophysiology of COPD including an outlook on new therapies It is of interest to researchers and clinicians in academia as well as in the pharmaceutical industry Chronic Obstructive Pulmonary Disease Robert A. Stockley, Stephen I Rennard, Klaus Rabe, Bartolome Celli, 2008-04-15 The only international clinical textbook for COPD one of the top 5 causes of death and disability worldwide The only COPD textbook to include the latest national and international guidelines and the newer therapeutic agents in COPD treatment International team of contributors covers all aspects of COPD from physiology and epidemiology to diagnosis and treatment Everything the busy physician needs to understand diagnose and treat the COPD patient Structure and physiology of the respiratory system Clinical considerations and allied conditions Therapy including current and developing treatments Diagnostic tests used in daily practice The Pulmonary Epithelium in Health and Disease David Proud, 2008-04-30 This is essential reading for everyone who would like to update their knowledge of the pulmonary epithelium It offers a comparison between laboratory animal models and human lungs highlighting the differences and the similarities between the two which will be particularly useful to researchers Doody's April 2009 The past two decades have seen extraordinary advances in our understanding of the

role of the pulmonary epithelium in airway health and disease Our understanding of epithelial biology has expanded exponentially in the past decade This book provides a unique comprehensive description of the structure of the epithelium its damage by various agents and the mechanism of epithelial repair In addition its detailed coverage includes not only the multiple ways in which the epithelium contributes to host defence but also the nature and functional consequences of the interactions of inhaled pathogens including viruses bacteria allergens and pollutants the role of the epithelium in regulating airway inflammation and structure is also discussed as is the role of the epithelium as a target for inhaled medications and as a route for novel drug delivery Containing chapters on multiple aspects of epithelial function in health and disease each one is written by a leader in the field This is essential reading for pulmonary researchers and physicians requiring detailed advanced understanding of the epithelium as well as those working in allergy biomedical and pharmaceutical research

Autoimmune Aspects of Lung Disease D.A. Isenberg,S. Spiro,2012-12-06 The lung forms an integral part of the body's immune system and is subject to a range of diseases which are either autoimmune in nature or have clear cut immunological abnormalities Autoimmune Aspects of Lung Disease provides a concise review of the lung's role in the immune system and a detailed account of both primary and secondary lung diseases which are characterised by immunological perturbation or frank autoimmunity The volume presents a detailed up to date account of disorders ranging from infection to neoplasia and is written in both an informative and stimulating style by a prestigious group of authors The chapters are extensively referenced and provide numerous insights into the aetiopathogenesis and clinical features and treatment of immunologically linked pulmonary disease The book is intended as both an overview for physicians and scientists with an established interest in diseases of the lung immunologists seeking to learn more about relevant disorders in the lung and general physicians whether specialists or in training seeking to enrich their knowledge of the links between the pulmonary and immune systems

Clinical Management of Chronic Obstructive Pulmonary Disease Thomas Similowski,William Whitelaw,Jean-Philippe Derenne,2002-04-25 This reference presents a comprehensive review of the most recent strategies used to assess treat and manage patients in each phase of chronic obstructive pulmonary disease COPD offering the latest diagnostic modalities to identify and distinguish components of COPD in earlier more reversible stages Contains perspectives from the World Health Organization on the epidemiology and control of COPD in Africa South America and Eastern Europe

Advanced Drug Delivery Systems in Management of Chronic Obstructive Pulmonary Disease Parteek Prasher,Mousumee Sharma,Gang Liu,Amlan Chakraborty,Kamal Dua,2025-06-25 This book offers a comprehensive overview of the epidemiology etiology and pathophysiology of chronic obstructive pulmonary disease COPD It addresses the limitations of existing drug delivery methods and explores advanced delivery systems to overcome these challenges providing an exhaustive account of their intricate mechanisms The introductory chapters elucidate pathways responsible for COPD progression followed by a detailed analysis of established biomarkers and potential targets in contemporary COPD therapy

Subsequent chapters provide insights into ongoing treatment modalities their efficacy drawbacks and prospective solutions to counter the setbacks of COPD therapy The subsequent section covers state of the art drug delivery technologies and novel drug formulations designed to enhance drug deposition and absorption in COPD lungs It further explores a methodical yet coordinated explanation of targeted personalized therapies and emerging approaches including nanoparticles polymeric carriers and vesicular delivery systems Toward the end the book discusses ongoing and completed clinical trials encompassing the management of COPD through advanced drug delivery approaches It serves as a valuable resource for professionals scientists academicians and clinicians specializing in respiratory health Provides an in depth understanding of the epidemiology etiology and pathophysiology of Chronic Obstructive Pulmonary Disease COPD Delve into pathways responsible for COPD progression conducting a detailed analysis of established biomarkers and potential targets in contemporary COPD therapy Offer insights into ongoing treatment modalities evaluating their efficacy drawbacks and proposing prospective solutions to counter the setbacks of COPD therapy Systematically organizes information on state of the art drug delivery technologies and novel formulations designed to enhance drug deposition and absorption in COPD lungs Presents a methodical explanation of targeted personalized therapies and emerging approaches including nanoparticles polymeric carriers and vesicular delivery systems

Chronic Obstructive Pulmonary Disease Exacerbations Jadwiga A. Wedzicha, Fernando J. Martinez, 2008-09-22 Chronic Obstructive Pulmonary Disease Exacerbations covers the definition diagnosis epidemiology mechanisms and treatment associated with COPD exacerbations This text also addresses imaging and how it plays a pivotal role in the diagnosis and study of exacerbations Written by today s top experts Chronic Obstructive Pulmonary Disease Exacerbat

Index Medicus ,2003-07 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

Drugs for the Treatment of Respiratory Diseases Domenico Spina, 2003-01-30 Respiratory diseases affect millions of people each year and represent a major health burden around the world This timely reference surveys and evaluates the drug treatments available for the main categories of lung diseases including asthma tuberculosis chronic obstructive pulmonary disease lung cancer and respiratory infections The recent re emergence of tuberculosis and the increase in asthma in certain populations underlines the importance of finding effective new treatments for these diseases This publication a comprehensive reference is one of the first to survey current and novel drug treatments for this group of diseases It is certain to establish itself as an essential source of reference for respiratory physicians clinicians and clinical pharmacologists

Smoking and Health Bulletin ,1984

COPD in the 21st Century Jadwiga A. Wedzicha, James P. Allinson, Peter M.A. Calverley, 2024-03-01 COPD remains a major cause of ill health disability healthcare costs and premature mortality Scientists and clinicians across many countries have made great efforts to understand this important disease and these have yielded positive results This Monograph provides an up to date overview of what is happening in this exciting field both at a basic and a clinical level Beginning crucially with the patient s perspective the chapters that follow consider the

best way to define COPD changes in the disease's incidence and prevalence and offer new insights into the role of the microbiome in COPD advances in imaging and treatment options both pharmacological and non pharmacological Taken together these chapters are an important contribution to the Monograph series and the COPD field in general

Nanomedicine, Nanotheranostics and Nanobiotechnology Rishi Paliwal, Shivani Rai Paliwal, 2024-09-30 Nanosized particles explored for therapeutics and diagnosis related research areas need the latest updated information for budding researchers as well as academicians Nanomedicine nanotheranostics and nanobiotechnology have been contemporary technological tools for diverse biomedical pharmaceutical and diagnostic solutions The present book is divided into two sections The first section is dedicated to exclusive book chapters related to nanomedicine such as its history regulatory aspects scale up and regulatory toxicology Additionally this section includes chapters focusing on the application domain of nanomedicine for targeted cancer therapy rheumatoid arthritis management psoriasis treatment ocular delivery topical applications oral bioavailability enhancement and pulmonary delivery The second section is composed of chapters in the area of nanotheranostics and applications of nanobiotechnology In brief the latest topics such as gold nanoparticles in diagnostics and therapy nanoparticles for siRNA delivery carbon nanotubes for gene delivery nanoparticles for vaccine delivery nanobiotechnology in cell based nanomedicines nanotechnology in regenerative medicine and nanocarriers in delivery of proteins and peptides are compiled KEY FEATURES A total of 26 emerging topics are covered in the book on cutting edge research areas at the multi disciplinary level The chapters focus on fundamentals and applications making the book attractive for beginners as well as experts The chapters are written by well known experts of the field in a simple scientific style with figures schemes and illustrations

Chronic Obstructive Lung Diseases Norbert F. Voelkel, William MacNee, 2008 This clinical reference for practitioners offers a new and comprehensive look at chronic obstructive lung disease Global in scale and importance it is an important cause of morbidity and mortality Bringing together a roster of internationally renowned contributors from the front lines of pulmonary medicine and research it is aimed at practitioners in pulmonary medicine pathology thoracic radiology and epidemiology Its focus is on the pathobiology of chronic obstructive pathology disease and emphysema and its exacerbation of chronic obstructive pulmonary disease and on treatment options This reference works to connect the dots by collating and centralizing the various data on the subject Asthma and COPD Peter J. Barnes, Jeffrey M. Drazen, Stephen I. Rennard, Neil C. Thomson, 2009-03-19 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

Acute Exacerbations of Chronic Obstructive Pulmonary Disease Nikos Siafakas,Nicholas R. Anthonisen,Dimitris Georgopoulos,2003-10-21 This text aids practitioners who seek to diagnose treat and manage patients with acute exacerbation of chronic obstructive pulmonary disease AECOPD more effectively It discusses pulmonary gas exchange muscle function and breathing water electrolyte imbalances and end stage disease

Clinical Management of Chronic Obstructive Pulmonary Disease Stephen I. Rennard,Roberto Rodriguez-Roisin,Gerard Huchon,Nicolas Roche,2007-11-19 Since the publication of the first edition chronic obstructive pulmonary disease COPD as a public health issue has increased in line with the predictions of the World Health Organization and by the year 2020 will become one of the main killers of human life With several important large scaled trials becoming available and our knowledge of COP

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

Chronic Obstructive Pulmonary Disease, 2Ed PMA Calverley,W. Macnee,N. Pride,S. Rennard,2012-12-11 Chronic obstructive pulmonary disease COPD is one of the most common respiratory diseases of the developed world and interest in the condition is burgeoning both among physicians encountering the disorder and within the

pharmaceutical industry International guidelines for diagnosis and management have been formulated and our basic understanding 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

Whispering the Techniques of Language: An Emotional Quest through **Mucus Hypersecretion In Respiratory Disease**

In a digitally-driven earth where monitors reign supreme and immediate conversation drowns out the subtleties of language, the profound secrets and mental subtleties hidden within phrases frequently get unheard. Yet, nestled within the pages of **Mucus Hypersecretion In Respiratory Disease** a captivating fictional treasure blinking with organic thoughts, lies a fantastic journey waiting to be undertaken. Written by an experienced wordsmith, that enchanting opus invites visitors on an introspective trip, gently unraveling the veiled truths and profound influence resonating within the very fabric of each word. Within the emotional depths of this poignant evaluation, we shall embark upon a genuine exploration of the book's primary styles, dissect its interesting publishing style, and fail to the powerful resonance it evokes deep within the recesses of readers' hearts.

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