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Molecular Biology of the Lung **Pulmonary Biology in Health and Disease Lung Epithelial Biology in the Pathogenesis of Pulmonary Disease** *Lung Cell Biology Biology of Lung Cancer Cytokines of the Lung* **Occupational Lung Diseases Proteoglycans in Lung Disease** *Electron Microscopy of the Lung Gene Therapy in Lung Disease Lung Surfactants* Dissecting the Role of Proteasome Activators in Lung Biology and Disease Models of Lung Disease *Chronic Lung Disease in Early Infancy Drug Delivery to the Lung Biology of Lung Cancer* **Lung Surfactant Function and Disorder** *Lung Tumors The Lung in Rheumatic Diseases Lung Stem Cells in the Epithelium and Vasculature Lung Volume Reduction Surgery for Emphysema* **Lung Development and Regeneration Cytokines in Pulmonary Disease** *Complexity in Structure and Function of the Lung* **Lung Growth and Development** Parasitic Lung Diseases **Lung Disease in the Tropics Idiopathic Pulmonary Fibrosis Air Pollutants and the Respiratory Tract Lung Stem Cell Behavior Tropical Lung Disease, Second Edition Nitric Oxide and the Lung** Lung Water and Solute Exchange Diagnostic Pulmonary Pathology **Multimodality Treatment of Lung Cancer Respiratory Infections** *The Microbiome in Respiratory Disease* The Lung at Depth 3D Lung Models for Regenerating Lung Tissue *Interventional Pulmonary Medicine, Second Edition*

Lung Disease in the Tropics Aug 05 2020 In 23 contributed articles, international clinicians who specialize in the field review the pulmonic complications of serious tropical and subtropical disorders, enabling physicians to initiate immunological workups and develop differential diagnoses of granulomatous lung conditions more easily. The
Lung Stem Cell Behavior May 02 2020 This book reviews stem cell behavior in the lung as it relates to regenerative medicine and stem cell therapeutics. Topics ranging from basic developmental mechanisms of various types of lung stem cells through the identification and properties of stem cell behavior and their potential applications in lung repair and regeneration, are discussed by an expert in the field. These discoveries are placed within the structural context of tissue and developmental biology in sections dealing with recent advances in understanding of developmental lung stem cell biology and behavior and their potential applications. Lung Stem Cell Behavior is essential reading for researchers in stem cell biology and regenerative medicine, patient advocates, undergraduate students, graduate students, and clinicians interested in cellular therapy and tissue engineering therapies.
Pulmonary Biology in Health and Disease Sep 29 2022 This new book provides an accessible review of the field of lung biology and disease aimed at the graduate or medical student and biomedical researcher. The book starts by considering the anatomy and ultrastructure of the lung and the tracheal and bronchial system, the control of respiration as well as the fundamentals of pulmonary physiology, gas exchange and circulation. This is followed by discussion of the regulation of acid-base balance, high altitude physiology and pathophysiology as well as exercise and the pulmonary system. Chapters follow on the immunology of the lung, lung injury, asthma and emphysema, granulomatous lung disease, inhalation of toxic substances as well as diseases of the small airways. The final chapter considers current research into lung transplantation.
Nitric Oxide and the Lung Feb 29 2020 This reference provides a state-of-the-art examination of this rapidly advancing field, covering the production of NO from arginine, the molecular biology of NO synthase, the NO-cyclic guanosine monophosphate (cGMP) signal transduction system, and the application of inhaled NO in various lung diseases.
Idiopathic Pulmonary Fibrosis Jul 04 2020 A discussion of the epidemiology, clinical features, and differential diagnoses of idiopathic pulmonary fibrosis (IPF). Key topics include the role of polymorphonuclear leukocytes in the pathogenesis of pulmonary fibrosis, and current treatment options, including medical therapy and lung transplantation.
Lung Surfactants Dec 21 2021 Integrating basic and clinical research on the biophysical and physiological functions of pulmonary surfactants, this practical reference presents thorough, cutting-edge coverage on surfactant-related lung disease. Manage neonatal respiratory distress syndrome (RDS), acute respiratory distress syndrome (ARDS), and acute lung injury more effectively!
The Microbiome in Respiratory Disease Sep 25 2019 This book comprehensively covers the microbiome in respiratory disease, from the initial research study to the disease-specific implications and related applications. Research on the respiratory microbiome is increasing in volume and scope. This reflects rapidly growing interest in the study of respiratory disease to understand how microbiota shape mechanisms of disease pathogenesis. The respiratory tract spans the nasal passages, sinus cavities, oropharynx, and the tracheobronchial tree of the lungs. In these compartments of the upper and lower respiratory tract, the microbiota have now been studied in the context of several chronic respiratory conditions. These include chronic sinusitis, allergic rhinitis, asthma, chronic obstructive pulmonary disease (COPD), bronchiectasis and pulmonary fibrosis, to name a few. The potential impact of ecological interactions (i.e., between microbes and between microbiota and host) within and across respiratory compartments is increasingly recognized. The book is organized into two main sections. Part I, Principles and Tools, covers conceptual modeling of the respiratory microbiome, experimental methodology with a focus on a priori considerations in study design and sampling, laboratory and computational methods for

analysis of respiratory microbiome data, and minimizing interpretive pitfalls. Part II, Applications, discusses the evidence from specific studies that have shed novel insights into the influence of respiratory microbiota on mechanisms or outcomes in specific diseases. Based on current best evidence, disease-specific chapters include chronic rhinosinusitis, asthma (pediatric and adult studies), chronic obstructive pulmonary disease (COPD), cystic fibrosis (CF), bronchiectasis not due to CF, idiopathic pulmonary fibrosis, and lung transplant. This is an ideal reference for forward-thinking practitioners with interest in novel developments in precision medicine applications in lung disease, as well as translational scientists in the field of microbiology, immunology and lung biology.

Interventional Pulmonary Medicine, Second Edition Jun 22 2019 Written by skilled specialists in the field of interventional pulmonology, the new Second Edition thoroughly explores the latest advancements, newest therapies, and diagnostic techniques in interventional pulmonary medicine. Using guidelines to ensure maximum quality and efficiency in patient care, this concise text is a must-have resource for all pulmonologists and critical care specialists. New features in the Second Edition include: the latest applications of bronchoscopic therapy for benign conditions (such as COPD and asthma), including endobronchial valves, airway bypass, chemical applications, and thermoplasty diagnostic techniques for airway cancer and peripheral lesions: fluorescence, narrow band, and navigational bronchoscopy, OCT, confocal and raman microscopy, and peripheral EBUS silicone, metal, and hybrid airway stents advances in endoscopic staging of lung cancer new bronchoscopic instrumentation, including the Ultra Thin Scope and Therapeutic Scope, and biopsy measuring and foreign body devices

Biology of Lung Cancer Jun 26 2022

Lung Cell Biology Jul 28 2022 Twenty-six contributions comprise this massive reference which reviews all aspects of lung cell biology and biochemistry--focusing on such essential topics as cellular components of lung tissue, basic metabolic and biochemical properties of the lung, the lung's surfactant system, and clinical considerations. Among the topics addressed: the nature of cilia and ciliated epithelial cells; regulators' impact on human lung development; lung surfactant synthesis, secretion, and turnover; the biochemistry of lung proteoglycans; changes that occur in the fetal lung; oxygen toxicity; the influence of nutrition on normal and diseased lungs of humans and animals. Some 3,800 bibliographic citations. Annotation(c) 2003 Book News, Inc., Portland, OR (booknews.com)

Lung Development and Regeneration Jan 10 2021 This reference compiles the most current technical and biological data available to survey the state-of-science in the care and management of patients with bronchopulmonary dysplasia, COPD, and other forms of lung disease-tracking the initiation and progression of processes that cause airway obstruction, the biologic and physiological abnormalities that characterize COPD, and the potential reversibility of the inflammatory response in COPD for improved patient diagnosis and treatment.

Biology of Lung Cancer Jul 16 2021 These questions and more, are answered by a distinguished team of nearly 40 specialists in the field who present the latest epidemiological, genetic, molecular, cellular, and diagnostic research findings in lung cancer research and their applications in patient management. Biology of Lung Cancer discusses available in vivo and in vitro models and their appropriate uses in specific studies highlights recent research on mechanisms of lung cancer in addition to potential future patient management targets explores mechanisms of resistance to treatment and reveals current and developing strategies in chemotherapy and gene therapy shows how novel data on the progression of premalignant molecular and cellular properties can be applied towards early definitive diagnosis considers the inheritance of genes that play pivotal roles in carcinogen activation and deactivation and more! Complemented with nearly 2500 bibliographic citations, drawings, photographs, and x-rays, this landmark reference is fundamental reading for pulmonologists, oncologists, physiologists, pathologists, cancer researchers, cardiothoracic surgeons, pharmacologists, biochemists, biophysicists, geneticists, epidemiologists, radiation oncologists, neurobiologists, and graduate and medical school students in these disciplines.

Respiratory Infections Oct 26 2019 Utilizing a syndrome-based approach, Respiratory Infections provides pulmonologists, infectious disease specialists, and immunologists with essential and thorough knowledge of respiratory infections and the multitude of diseases that make us these infections, including pneumonia, tuberculosis, HIV, and cystic fibrosis. The only source to bridge the gap between respiratory infections and infectious disease, this text advises the clinician on how to easily and rapidly identify, treat, and manage respiratory infections.• Key features of this integral resource include:

Chronic Lung Disease in Early Infancy Sep 17 2021 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 chronic lung disease through its evolution and during recovery! Written by nearly 75 leading international authorities on lung disease during early childhood development who describe the clinical, radiographic, and pathological changes that have occurred in the 30 years since bronchopulmonary dysplasia was first discovered, Chronic Lung Disease in Early Infancy focuses on the development of technology, notably changes in the application of assisted ventilation traces the evolution and impact of new therapies, including prenatal glucocorticoids and postnatal surfactants suggests effective therapeutic and preventive strategies explains how the lungs develop structurally and functionally explores how lung development is altered by injury and the repair process critically examines research in the field of pediatric lung pathology reviews what is known and emphasizes what needs to be learned about bronchopulmonary dysplasia provides direction for future research into chronic lung disease and more!

Lung Tumors May 14 2021 This thoroughly up-to-date reference addresses new approaches to the diagnosis, management, and treatment of lung tumors, providing the insights of fundamental biologists, surgical pathologists, and clinicians.

Featuring research from over 75 internationally recognized experts in the field, Lung Tumors details the key factors of lung tumor carcinogenesis analyzes multimodality treatments using chemotherapy and fractionated radiotherapy reviews telomerase activation as well as the p53 and Rb pathways investigates the FHIT gene and gene hypermethylation elucidates the complex relationship between host and tumor highlights angiogenesis and the clonal evolution of preneoplastic lesions profiles the differential diagnosis between primary and secondary tumors examines the rare and borderline malignancies and more! Containing nearly 3000 references, drawings, photographs, and micrographs, Lung Tumors serves as an excellent reference for pulmonologists and pulmonary disease specialists, physiologists, respiratory and thoracic surgeons, oncologists, pathologists and surgical pathologists, molecular and cellular biologists, lung radiologists, medical school and graduate students in these disciplines.

Lung Stem Cells in the Epithelium and Vasculature Mar 12 2021 This book covers the identification and role of endogenous lung stem cells in health and disease, particularly the most recent advances. In addition, it discusses the rapidly growing field of stem cells and cell therapy as it relates to lung biology and disease as well as ex vivo lung bioengineering. Such approaches may provide novel therapeutic approaches for lung diseases. Human pluripotent stem cell differentiation to model the pulmonary epithelium and vasculature is also discussed. World-recognized scientists who specialize in studying both the lung epithelium and pulmonary vasculature contribute the chapters. Topics covered include: stem cell niches in the lung, the role of progenitor cells in fibrosis and asthma, iPSC in modeling lung disease, vascular repair by endothelial progenitor cells and circulating fibrocytes in pulmonary vascular remodeling. This volume of the Stem Cell Biology and Regenerative Medicine series is essential reading for researchers and clinicians interested in stem cells, lung biology and regenerative medicine. It is also an invaluable resource for advanced students studying cell biology, regenerative medicine and lung physiology.

Complexity in Structure and Function of the Lung Nov 07 2020 Incorporates state-of-the-art interpretations of complex pulmonary physiology revealed by high-resolution or -magnification studies into current concepts of lung mechanics, gas exchange, and pulmonary vascular and regional ventilation properties. Features a new alternate hypothesis to describe blood flow distribution in the lung.

Lung Volume Reduction Surgery for Emphysema Feb 08 2021 Considering the epidemiology of COPD, this title collects all available knowledge on the subject, featuring data on the national emphysema treatment trial. It explores the epidemiology of emphysema, the management of complications and surgical controversies in lung volume reduction surgery for emphysema (LVRS).

Tropical Lung Disease, Second Edition Mar 31 2020 This authoritative guide provides state-of-the-art reviews of the most commonly encountered infectious and noninfectious tropical pulmonary diseases and emphasizes current approaches to the identification, diagnosis, and treatment of tropical lung disorders-offering a concise overview of imaging services in the tropics, as well as authoritative coverage of specific diseases such as tuberculosis, tropical pulmonary eosinophilia, schistosomiasis, malaria, amebiasis, Behcet's disease, and Familial Mediterranean Fever (FMF).

Multimodality Treatment of Lung Cancer Nov 27 2019 Edited by the organizer of a pioneering, multidisciplinary clinic for lung cancer patients, now emulated at cancer centers worldwide! This up-to-date reference presents the treatment and management of lung cancer, as well as accurate evaluation and assessment procedures for small-cell and non-small-cell lung cancers, written by experts in various disciplines of the subject, including biology, chemoprevention, radiographic and surgical staging, and video-assisted thoracoscopic surgery. Offering a better understanding of the molecular events leading to lung cancer for improved therapeutic strategies, response rates, and cure rates, Multimodality Treatment of Lung Cancer discusses recent advances in the biology of lung cancer such as the role of oncogenes, tumor suppressor genes, and the role of telomerase in carcinogenesis details cellular and biological processes operating in malignant cells compares ongoing international chemoprevention trials in lung, head, and neck cancer contrasts cost advantages and disadvantages of several noninvasive procedures, including chest x-ray, CT, and MRI scans illustrates the newest TNM staging classification system, including mediastinoscopy in assessment of the mediastinum emphasizes technological advances in VATS procedure for evaluating and treating lung cancer with lower morbidity and cost furnishes a thorough review of all active chemotherapeutic agents and modern chemotherapy regimens explores new drugs and drug combinations measured for activity, as well as toxicity in preclinical animal model systems and more! Featuring over 1000 references, tables, micrographs, x-rays, and illustrations, Multimodality Treatment of Lung Cancer is an excellent hands-on reference for pulmonologists and pulmonary disease specialists, oncologists, thoracic surgeons, radiologists and radiation therapists, oncoradiologists, pathologists, epidemiologists, physiologists, molecular and cellular biologists, public health professionals, regulatory and public health policy personnel, and graduate and medical students in these disciplines.

Models of Lung Disease Oct 19 2021 This research-level reference provides a review of the morphological techniques that have become a primary method of anatomical study correlating structure and function in lung physiology and pathology. Detailing the evolution of anatomy as a research discipline, it explores general structural techn

Dissecting the Role of Proteasome Activators in Lung Biology and Disease Nov 19 2021

Air Pollutants and the Respiratory Tract Jun 02 2020 This work describes the history of the problem of air pollution, traces the mechanisms and current hypotheses explaining the influence of specific air toxics and contaminants on the lung, and outlines opportunities for necessary research. It links indoor and outdoor air pollution with the incidence on lung cancer from an epidemiological perspective.

Parasitic Lung Diseases Sep 05 2020 This indispensable resource covers the etiology and treatment of endemic and nonendemic lung infections caused by parasitic protozoa and helminths.

Cytokines in Pulmonary Disease Dec 09 2020 Focusing on the role of the cytokine network in promoting immunity, this superb interdisciplinary collection intensively investigates the behavior of inflammatory mediators in the pathogenesis and resolution of pathogen-specific pulmonary infections-highlighting recent basic findings and discussing the latest results of clinical trials. Defines the vital role that cytokines play in host defense and the pathophysiology of infections associated with pulmonary disease, emphasizing the potential of immunomodulators and gene therapy in treatment. Cytokines in Pulmonary Disease provides state-of-the-art knowledge of the field of cytokines and pulmonary diseases in a single, authoritative source reviews the roles of cytokines in pathogen-specific infections, including tuberculosis, HIV-related infections, fungal pneumonias, cystic fibrosis, and other disorders assesses the rationale and efficacy of new approaches in both the prevention and treatment of pulmonary infectious disease examines the clinical applications and impact of cytokines in pulmonary disease and more. Written by leading international authorities in their respective fields, Cytokines in Pulmonary Disease will find a place on the bookshelves of specialists in pulmonary and critical care medicine, infectious diseases, surgery, immunology, microbiology, cell and molecular biology, and medical school and graduate students in these disciplines.
Cytokines of the Lung May 26 2022 Focusing on all the major cytokine families, this reference book provides coverage of cytokine regulatory processes in the lung and other tissues and comprehensive descriptions of cytokine functions specific to the lung.;Discussing the diverse cytokine-binding proteins and the role of cytokines in tissue injury and repair processes and extracellular matrix regulations, the book supplies information on amino acid structure and gene regulatory sequences, examines the receptor biology of individual cytokines, illustrates cytokine interactions with their cognate receptors and surveys the phenotypic effects of individual cytokines on target cells. With over 2700 literature citations and figures, this book is a resource for pulmonologists, physiologists, immunologists, cell and molecular biologists, environmental toxicologists, oncologists, and graduate-level and medical school students in these disciplines.
Molecular Biology of the Lung Oct 31 2022
Drug Delivery to the Lung Aug 17 2021 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, photographs, and micrographs, Drug Delivery to the Lung outlines the history of inhaled medications in the treatment of respiratory disease describes aspects of respiratory structure to inhalation therapy emphasizing developmental changes compares existing in vitro/in vivo correlations for key aerosol modalities with lung model predictions discusses particle diameter measurement, particle size statistics, and aerosol test methods reviews the clinical effects of altering the deposition site of various classes of aerosolized drugs surveys the development of novel, efficient, and convenient nebulizer systems details breath-actuated and spacer devices constructed for children analyzes dry-powder and pressurized metered dose inhalers considers the transition from CFCs to new environmentally friendly chemical propellants and more! Giving the clinician an overview of factors essential to understanding drug delivery via nebulization, Drug Delivery to the Lung is a superlative reference for pulmonologists; physiologists; pharmaceutical scientists; immunologists; allergists; analytical, organic, and medicinal chemists and biochemists; chemical, genetic, and process engineers; and medical and graduate school students in these disciplines.
3D Lung Models for Regenerating Lung Tissue Jul 24 2019 3D Lung Models for Regenerating Lung Tissue is a comprehensive summary on the current state of art 3D lung models and novel techniques that can be used to regenerate lung tissue. Written by experts in the field, readers can expect to learn more about 3D lung models, novel techniques including bioprinting and advanced imaging techniques, as well as important knowledge about the complexity of the lung and its extracellular matrix composition. Structured into 15 different chapters, the book spans from the original 2D cell culture model on plastic, to advanced 3D lung models such as using human extracellular matrix protein. In addition, the last chapters cover new techniques including 3D printing, bioprinting, and artificial intelligence that can be used to drive the field forward and some future perspectives. This highly topical book with chapters on everything from the complexity of the lung and its microenvironment to cutting-edge 3D lung models, represents an exciting body of work that can be used by researchers during study design, grant writing, as teaching material, or to stay updated with the progression of the field. A comprehensive summary of advanced 3D lung models written by the experts in the respiratory field Explore novel techniques that can be used to evaluate and improve 3D lung models, including techniques such as 3D printing, bioprinting, and artificial intelligence Explains what extracellular matrix is, the complexity of the lung microenvironment, and why this knowledge is important for creating a functional bioartificial lung
Lung Surfactant Function and Disorder Jun 14 2021 The only source to describe the lung surfactant as a complex membranous system, this guide analyzes lung surfactant function from the aspects of molecular biology, biophysics, membrane science, and surface and interface analysis and reviews the latest basic and clinical issues relating to lung disease and (dys)function.
Lung Epithelial Biology in the Pathogenesis of Pulmonary Disease Aug 29 2022 Lung Epithelial Biology in the Pathogenesis of Pulmonary Disease provides a one-stop resource capturing developments in lung epithelial biology related to basic physiology, pathophysiology, and links to human disease. The book provides access to knowledge of molecular and cellular aspects of lung homeostasis and repair, including the molecular basis of lung epithelial intercellular communication and lung epithelial channels and transporters. Also included is coverage of lung epithelial biology as it relates to fluid balance, basic ion/fluid molecular processes, and human disease. Useful to physician and clinical scientists, the contents of this book compile the important and most current findings about the role of epithelial cells in lung disease. Medical and graduate students, postdoctoral and clinical fellows, as well as clinicians interested in the mechanistic basis for lung disease

will benefit from the books examination of principles of lung epithelium functions in physiological condition. Provides a single source of information on lung epithelial junctions and transporters Discusses of the role of the epithelium in lung homeostasis and disease Includes capsule summaries of main conclusions as well as highlights of future directions in the field Covers the mechanistic basis for lung disease for a range of audiences

Proteoglycans in Lung Disease Mar 24 2022 Discusses new treatment strategies for malignant mesothelioma, pulmonary edema, fibrosis, asthma, emphysema, and bronchiectasis. Proteoglycans in Lung Disease considers glycosaminoglycans as novel therapeutic agents or targets in lung disease the role of proteoglycans in determining mechanical behavior of lung tissue hyaluronan and its receptors in wound healing, inflammation, vasculogenesis, and angiogenesis the impact of small proteoglycans on matrix assembly versican as a modulator of cell adhesion, migration, and proliferation antiproliferative activity of heparin and its derivatives on pulmonary artery smooth muscle cells the effects of mechanical strain on proteoglycans the functions of proteoglycans in the vascular wall the effect of hypoxia on glycosaminoglycans in the lung Comprised of more than 1940 references, Proteoglycans in Lung Disease

Electron Microscopy of the Lung Feb 20 2022 Documents the enormous contribution electron microscopy has made to the study of lung biology, describing new analytical instruments, recent technological developments, and future avenues of research. Illustrated with 290 micrographs of normal and abnormal lung, rare tumors, and other features of lu

Occupational Lung Diseases Apr 24 2022 This book discriminates and emphasizes approaches that are likely to be productive in terms of understanding the causation and mechanisms of occupational lung diseases. It benefits research academicians in the field of lung diseases, and government and public health authorities.

The Lung at Depth Aug 24 2019 This up-to-the-minute reference looks at many aspects of lung physiology and pathophysiology in the most challenging of physical environments on Earth-that of diving. Highlights causes of pulmonary barotrauma (severe or permanent lung injury) such as hypothermia, carbon dioxide poisoning, nitrogen narcosis, and pulmonary oxygen toxicity! Written by over 20 international experts in the field, The Lung at Depth covers the physics and physiology of immersion as it pertains to circulatory function and gas exchange examines the controversial issue of diving risks associated with asthma and other aspects of pulmonary fitness for diving explores the effects of different breathing gas compositions and the dangers of inhaling high-density gas at low temperatures addresses both the theoretical and practical problems of oxygen toxicity and carbon dioxide retention explains the lung's action as a bubble filter in decompression and its vulnerability to barotrauma evaluates subtle lung changes due to long-term diving exposures juxtaposes the pathophysiology of drowning and the physiology of liquid breathing details the unique challenges of human breath-hold diving and the remarkable adaptations of diving animals discusses the limitations and optimal design of breathing gear for divers and more! Profusely illustrated with more than 250 drawings and photographs, and containing over 1800 literature citations and instructive case studies, The Lung at Depth is an ideal resource for pulmonary and critical care specialists, physiologists, sports medicine practitioners, ocean engineers, bioprocess technologists, and graduate and medical students in these disciplines.

Diagnostic Pulmonary Pathology Dec 29 2019 This book parallels the strategy used by pathologists and pulmonologists to arrive at a patient's diagnosis in daily practice, presenting examples with histopathologic or clinical findings that challenge readers to rule out possibilities from the differential diagnosis and determine the etiology and appropriate treatment. Emphasizes frequently encountered practical problems in differential diagnosis! With contributions from nearly 35 pathologists and clinicians who cover both neoplastic and non-neoplastic lung diseases, Diagnostic Pulmonary Pathology enhances communications between the pathologist and the clinician regarding lung biopsies assesses the clinical utility of transbronchial biopsy in various disease processes summarizes the relationship between patterns of mature fibrosis and the most common associated pathological entities describes and recommends techniques for inflation fixation of open or thoracoscopic lung biopsy specimens explores diseases that fill, rather than collapse or destroy, alveoli examines the differential diagnosis of immature intraalveolar fibrosis discusses alveolar lining cell proliferations, interstitial infiltrates, vascular diseases, and diseases causing alveolar destruction explains diffuse, multifocal, and focal infiltrates follows the routine path of diagnosing granulomatous diseases considers infection and allograft rejection in pulmonary allograft recipients aids in establishing tissue diagnosis of diseases with overlapping clinical and histopathologic features supplies clues to differentiate malignant from nonmalignant cell proliferations and more! Differing in design from traditional medical references, Diagnostic Pulmonary Pathology contains 1175 cited works, micrographs, tables, and drawings, and is a time-saving, user-friendly guide for pathologists, pulmonologists, thoracic surgeons, physiologists, internists, general practitioners, and medical school students in these disciplines.

Lung Water and Solute Exchange Jan 28 2020

The Lung in Rheumatic Diseases Apr 12 2021

Lung Growth and Development Oct 07 2020 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 mo-lecular biology. Provides nearly 2800 bibliographic citations and over 170 tables, drawings, and x-rays to help clarify specific discussions.

Gene Therapy in Lung Disease Jan 22 2022 Presents up-to-date summaries of recently completed and ongoing clinical trials. With writings from more than 35 internationally renowned experts, Gene Therapy in Lung Disease unlocks the biological mysteries of infection immunity cytokine behavior fibrosis and illustrates the use of gene the