bron–
chi

alveoli

Type I and II alveolar cells

Type II alveolar cell with surfactant
production and secretion

Lung Surfactants

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   Basic Research on Lung Surfactant P. von Wichert,B. Müller,1990-01-05   Pulmonary Surfactant Jacques R. Bourbon,1991-04-22 This book represents a comprehensive update on pulmonary surfactant by merging classical knowledge with new information Topics include surfactant secretion and alveolar processing and recycling physical bases and different theoretical models of the physiological mechanism for pulmonary surfactant action recent findings on surfactant like material in other organs developmental processes and multifactorial regulation etiology and physiopathology of neonatal respiratory distress and modern methods for functional explorations of the lung in neonates and experimental models in animals The book also contains a discussion on the management of hyaline membrane disease from both the experimental and clinical points of view   **Pulmonary Surfactant** Bengt Robertson,Lambert M. G. van Golde,Joseph J. Batenburg,1992 There has been a spectacular development in both basic research on the pulmonary surfactant system and the clinical use of surfactant for treatment of lung diseases especially in the neonatal period In particular the molecular biology and physiological roles of the surfactant associated proteins SP A have been clarified during the last few years the structure and functions of these proteins therefore constitute an important hot topic and are reviewed in several chapters of this volume including surface chemistry and ultrastructure of surfactant components the role of surfactant in lung mechanics and alveolar liquid homeostasis and surfactant metabolism and its hormonal control However as mentioned above clinical applications of surfactant research have become increasingly important and are therefore dealt with extensively in the remaining chapters during the last few years to illustrate the fascinating complexity of the surfactant system Hence the main mission of this volume is to catalyze the future development in this field with the exchange of ideas between scientific workers from different disciplines   Coronavirus Disease (COVID-19): Pathophysiology, Epidemiology, Clinical Management and Public Health Response ,2023-01-25 Volume I A An outbreak of a respiratory disease first reported in Wuhan China in December

2019 and the causative agent was discovered in January 2020 to be a novel betacoronovirus of the same subgenus as SARS CoV and named severe acute respiratory syndrome coronavirus 2 SARS CoV 2 Coronavirus disease 2019 COVID 19 has rapidly disseminated worldwide with clinical manifestations ranging from mild respiratory symptoms to severe pneumonia and a fatality rate estimated around 2% Person to person transmission is occurring both in the community and healthcare settings The World Health Organization WHO has recently declared the COVID 19 epidemic a public health emergency of international concern The ongoing outbreak presents many clinical and public health management challenges due to limited understanding of viral pathogenesis risk factors for infection natural history of disease including clinical presentation and outcomes prognostic factors for severe illness period of infectivity modes and extent of virus inter human transmission as well as effective preventive measures and public health response and containment interventions There are no antiviral treatment nor vaccine available but fast track research and development efforts including clinical therapeutic trials are ongoing across the world Managing this serious epidemic requires the appropriate deployment of limited human resources across all cadres of health care and public health staff including clinical laboratory managerial and epidemiological data analysis and risk assessment experts It presents challenges around public communication and messaging around risk with the potential for misinformation and disinformation Therefore integrated operational research and intervention learning from experiences across different fields and settings should contribute towards better understanding and managing COVID 19 This Research Topic aims to highlight interdisciplinary research approaches deployed during the COVID 19 epidemic addressing knowledge gaps and generating evidence for its improved management and control It will incorporate critical theoretically informed and empirically grounded original research contributions using diverse approaches experimental observational and intervention studies conceptual framing expert opinions and reviews from across the world The Research Topic proposes a multi dimensional approach to improving the management of COVID 19 with scientific contributions from all areas of virology immunology clinical microbiology epidemiology therapeutics communications as well as infection prevention and public health risk assessment and management studies   Surfactants and the Lining of the Lung Emile M. Scarpelli,1988   *Lung Surfactant: Basic Research in the Pathogenesis of Lung Disorders* B. Müller,P. von Wichert,1994-04-08   **Lung Surfactant Function and Disorder** Kaushik Nag,2019-08-30 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   **The Surfactant System of the Lungs** Konrad Morgenroth,2019-07-22 No detailed description available for The Surfactant System of the Lungs   **Lung Surfactant** Bernd Müller,Peter Wichert,1994   *Surfactant Replacement Therapy* Burkhard Lachmann,2012-12-06 I am very happy and honoured to have so many famous contrib utors from around the world presenting their knowledge and experience in this book including Dr

Rufer who as early as 1967 attempted to improve the pressure volume curve of a child dying from RDS using dried surfactant from dogs Drs Enhorn ing and Robertson who were the first to treat rabbit fetuses with surfactant replacement and impressively demonstrated that sur factant improved lung mechanics and Dr Fujiwara who at the end of the 1970 s had already successfully treated the first babies with surfactant replacement and published this work al ready in 1980 Thus the idea of surfactant replacement therapy is now more or less 20 years old and almost 10 years have passed since the first publication by Dr Fujiwara of his impressive clinical results Up to now September 1988 about 2 200 babies have been treated worldwide with tracheal instillation of surfactant with most promising results The type of surfactant used varies from pure natural extracts from bovine or pig lungs to surfactant extracted from human amniotic fluid to pure phospholipids To date however there is still no surfactant commercially available except in Japan in spite of the fact that it is urgently awaited by neonatologists and intensive care doctors throughout the world This volume is based on the contributions presented at the international congress on Surfactant Replacement Therapy which was held in Rotterdam The Netherlands in November 1987

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The American Review of Respiratory Disease ,1993 Includes Abstracts section previously issued separately *Handbook of Nanostructured Biomaterials and Their Applications in Nanobiotechnology* Hari Singh Nalwa,2005 The first reference work ever published on nanostructured biomaterials and their applications A unique source of in depth knowledge of recent advances in applications of nanostructured biomaterials Most up to date emerging aspects of nanobiomaterials and their applications in the field of nanotechnology Contains 33 state of the art chapters written by over 70 internationally renowned experts from 10 countries About 5 000 bibliographic citations and hundreds of illustrations figures tables chemical structures and equations

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Table of Contents Lung Surfactants

1. Understanding the eBook Lung Surfactants
    - The Rise of Digital Reading Lung Surfactants
    - Advantages of eBooks Over Traditional Books
2. Identifying Lung Surfactants
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Lung Surfactants
    - User-Friendly Interface
4. Exploring eBook Recommendations from Lung Surfactants
    - Personalized Recommendations
    - Lung Surfactants User Reviews and Ratings

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