

This book attempts to explain the mechanisms by which surfactants - specifically, the surface-active phospholipids - exert their physiological functions in the body. There is much controversy as to the role of surfactant in the lung, and the veracity of the various alveolar models, which are clearly evaluated in *The Biology of Surfactant*. The text goes on to describe the nature of surfactant in the gastro-intestinal tract, joints and at tissue surfaces in other organs where it could have several useful functions. These are related to work on synthetic-surfactants which may shed light on natural mechanisms with important implications for medical research. In each of these the underlying physico-chemical principles are emphasized in a manner accessible to the biologist and physician. By giving an overview of theories as to the role and mechanism of surfactants - including his own forthright views - Professor Hills has provided a comprehensive and stimulating text. The volume will appeal to researchers and students of physiology, paediatrics, obstetrics, rheumatology, neonatology; specialists in pulmonary physiology and chest diseases; surgeons, biochemists, microbiologists whose work relates to surfactants in the lung and other organs.

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The Molecular Era of Surfactant Biology Synopsis: This book attempts to explain the mechanisms by which surfactants - specifically, the surface-active phospholipids - exert their physiological functions **The role of lipids in pulmonary surfactant - Science Direct** A substance composed of lipoprotein that is secreted by the alveolar cells of the lung and serves to maintain the stability of pulmonary tissue by reducing the **The Biology of Surfactant by Hills, Brian A.: Cambridge University** surfactant (LAS) ls_2 and several other biological surfactants. The first method permitted each surfactant a certain freedom to spread beyond the confines of. **Bubbles, Babies and Biology: The Story of Surfactant - The FASEB** Surfactant is a metabolically active assembly of phospholipids and surfactant-specific proteins that is essential for normal lung mechanics. The surfactant **A STUDY OF SOME BIOLOGICAL SURFACTANTS** Pulmonary surfactant is a surface-active lipoprotein complex (phospholipoprotein) formed by . *Biology of the Neonate*. 85 (4): 326-32. doi:10.1159/000078172. **BIOLOGY OF SURFACTANT - Clinics in Perinatology The Biology of Surfactant - Brian A. Hills - Google Books** Jul 11, 2016 - 19 sec - Uploaded by R. BatildeNanoscience Colloidal and Interfacial Aspects Surfactant Science Pdf - Duration: 0:19. **O The Biology of Surfactant. By B. A. Hills. Pp. 408. (Cambridge** Before scientists and clinicians, working together, discovered the existence of lung surfactant and then figured out how to overcome its absence in the lungs of **The biology of surfactant Brian A. Hill. Cambridge University Press** May 30, 2014 Advances in the physiology, biochemistry, molecular and cell biology of the pulmonary surfactant system transformed the clinical care and **Lung surfactant: some historical perspectives leading to its cellular** *Am J Physiol*. 1989 Aug257(2 Pt 1):L1-12. Lung surfactant: some historical perspectives leading to its cellular and molecular biology. Tierney DF(1). Surfactants are compounds that lower the surface tension (or interfacial tension) between two . The most common biological zwitterionic surfactants have a phosphate anion with an amine or ammonium, such as the phospholipids **The Biology of Surfactant Biophysics and Physiology Cambridge An**

extensive review of the biology of surfactant is beyond the scope of this article. Here the focus is on surfactant in the perinatal lung emphasizing areas that **Biological Effects of Surfactants - CRC Press Book** There is much controversy as to the role of surfactant in the lung, and the veracity of the various alveolar models, which are clearly evaluated in **The Biology of Surfactant jpg Pdf Book - YouTube** There is strong evidence that alterations in the pulmonary surfactant system play an important role in the pathophysiology of lung disease, including ARDS . **Surfactant - definition of surfactant by The Free Dictionary** Oct 3, 2005 The lung surfactant is produced just at parturition and it has often been speculated that deficiencies in surfactant metabolism might cause cot **Surfactant - Wikipedia** Book Review. The biology of surfactant Brian A. Hill. Cambridge University Press. ix + 408 pages, 89.50 (1988). Authors. Bernard Fox. Close author notes. **Biology of surfactant - ResearchGate** Biology of surfactant on ResearchGate, the professional network for scientists. **Bubbles, Babies and Biology: The Story of Surfactant - The FASEB** Pulmonary surfactant is a unique biological system in that a major function involves the rapid formation of a highly surface-active film with an equilibrium surface **The Biology of Surfactant - Google Books Result** There is much controversy as to the role of surfactant in the lung, and the veracity of the various alveolar models, which are clearly evaluated in **The Biology of Surfactant biology and clinical application. - NCBI** This book attempts to explain the mechanisms by which surfactants - specifically, the surface-active phospholipids - exert their physiological functions in the **Surfactants and biological activity - Wiley Online Library** Biological Effects of Surfactants synthesizes the most important findings from hundreds of articles and the authors current experiments on the biological effects of **The molecular era of surfactant biology. - NCBI - NIH** Richard E. Pattle contributed enormously to the biology of the pulmonary surfactant system. However, Pattle can also be regarded as the founding father of **Applications of Anti-Curosurf Antibodies to Understanding - Karger** Richard E. Pattle contributed enormously to the biology of the pulmonary surfactant system. However, Pattle can also be regarded as the founding father of **References in BIOLOGY OF SURFACTANT - Clinics in Perinatology** There are a number of other properties of surfactants which might well have a counterpart in biological systems although this author has not found the time to **The comparative biology of pulmonary surfactant: past - NCBI** Before scientists and clinicians, working together, discovered the existence of lung surfactant and then figured out how to overcome its absence in the lungs of **Biology of surfactant. - NCBI - NIH** Nov 12, 1989 Article. The Biology of Surfactant. By B. A. Hills. Pp. 408. (Cambridge University Press, 1988.) ?50.00/\$89.50 hardback. ISBN 8 7 **The Biology of Surfactant: 9780521307284: Medicine & Health** the Biology of Alveolar Surfactant. D.S.. David S. Strayer A2C and A2R block the binding of radiolabeled surfactant to these cells. Using a combination of A2C **The comparative biology of pulmonary surfactant - Science Direct** Amitabha Chattopadhyay , The Biology of Surfactant. Brian A. Hills , The Quarterly Review of Biology 65, no. 1 (Mar., 1990): 123. DOI: 10.1086/416700

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