



# **Proliposomes: A Manufacturing Technology of Liposomes for Pulmonary Delivery via Nebulization (SpringerBriefs in Applied Sciences and Technology)**

*Abdelbary Elhissi, Waqar Ahmed, Kevin M.G. Taylor, Xun Sun, Zhi-Rong Zhang, David A. Phoenix*

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Proliposome technologies are stable phospholipid formulations that provide an approach to generating liposomes upon addition of aqueous phase prior to administration. In this monograph, the authors review the potential of proliposomes for pulmonary delivery of liposomes via nebulization using air-jet, ultrasonic and vibrating-mesh nebulizers. They explore both proliposome types, particulate-based and solvent-based. The book concludes that both types are capable of exploiting the energy of nebulization to generate liposomes within nebulizers.

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