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Cystic Fibrosis Disease Management and Advanced Drug Delivery Systems

Editors: Bhupendra Prajapati, PhD
Rishabha Malviya, PhD
Sonali Sundram, PhD
Akshay Parihar

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REVIEWS

"A comprehensive exploration of the condition and the cutting-edge therapeutic options being developed for the management of cystic fibrosis. . . . a quality book on cystic fibrosis management."

—From the Foreword by Dr. Dhruv Galgotia, CEO, Galgotias University, Greater Noida, India

This new volume explores the most recent research, therapeutic developments, and clinical techniques used in treating cystic fibrosis, a potentially fatal genetic illness that affects the lungs and digestive system, resulting in severe respiratory and gastrointestinal difficulties. The volume provides an in-depth discussion of the disease pathogenesis, the critical role of microbes in its progression, and cutting-edge techniques for combating it.

The book begins by providing an overview of cystic fibrosis, including its genetic foundation, clinical manifestations, and severe impact on patients' lives. The book further addresses the complex pathophysiology components of the condition, providing insight into the disruptions induced by cystic fibrosis transmembrane conductance regulator (CFTR) mutations. The book also discusses the role of microbial infections in aggravating cystic fibrosis, emphasizing the need for appropriate infection control and management.

The book explores novel therapeutic techniques to address cystic fibrosis, including gene therapy and personalized medicine, as well as novel delivery systems such as liposomes, lipid nanoparticles, and polymeric nanoparticles to revolutionize cystic fibrosis treatment. It also explains the use of aerosol antibiotics and anti-inflammatory medicines to treat respiratory problems and inflammation.

This book will be informative for a wide range of readers, including doctors, researchers, healthcare professionals, and students interested in improving our understanding and treatment strategies for cystic fibrosis.

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50 national and international journals of repute. He was an invited author for the magazine *Atlas of Science* as well as a pharma magazine dealing with B2B industry, *Ingredient South Asia*. He completed his BPharm at Uttar Pradesh Technical University and MPharm (Pharmaceutics) at Gautam Buddha Technical University, Lucknow Uttar Pradesh, India. His PhD (Pharmacy) work was in novel formulation development techniques.

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