

1. Record Nr.	UNINA9910869168903321
Titolo	Understanding Allergic Airway Diseases : Contemporary Treatment Paradigm // edited by Parteek Prasher, Mousmee Sharma, Sachin Kumar Singh, Ronan MacLoughlin, Kavita Pabreja, Kamal Dua
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819719532 9789819719525
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (271 pages)
Disciplina	616.202
Soggetti	Pharmacology Pharmaceutical chemistry Pharmacovigilance Immunology Nanotechnology Quantum dots Pharmaceutics Drug Safety and Pharmacovigilance Quantum Dots
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Introduction to Allergic Airway Diseases -- Chapter 2. Pathophysiology of Allergic airway diseases -- Chapter 3. Immunology of Allergic Airway Diseases -- Chapter 4. Epidemiology of Allergic Airway Diseases -- Chapter 5. Nanotechnology in the Diagnosis of Allergic Airway Diseases -- Chapter 6. Metal and metal oxide Nanoparticles for the Management of Allergic Airway Diseases -- Chapter 7.-Nanomicelles for the Management of Allergic Airway Diseases -- Chapter 8 -- Carbon nanotubes (CNTs): A novel therapeutic approach in the management of allergic airway disease -- Chapter 9. Liposomes for the Management of Allergic Airway Diseases -- Chapter 10. Nanoparticles Solutions for Allergic Airway Disorders: Current Trends and Future Prospects -- Chapter 11. Solid lipid

nanoparticles for the Management of Allergic Airway Diseases -- Chapter 12. Role of Dendrimers in Management of Allergic Airway Diseases -- Chapter 13. Nanofibers for the Management of Allergic Airway Diseases -- Chapter 14. Quantum dots for the Management of Allergic Airway Diseases -- Chapter 15. Future Directions in Allergic Airway Diseases.

---

### Sommario/riassunto

The book explores the intersection of nanotechnology and allergic airway diseases. With a focus on diagnosis and management, each chapter delves into specific areas of interest. Beginning with an introduction to the diseases, the book progresses to uncover the pathophysiology and immunology underlying allergic airway diseases. The epidemiology chapter provides insights into the prevalence and impact of these conditions. A significant portion of the book is dedicated to nanotechnology applications, with chapters on metal and metal oxide nanoparticles, nanomicelles, carbon nanotubes, liposomes, polymeric nanoparticles, solid lipid nanoparticles, dendrimers, nanofibers, and quantum dots. These chapters delve into the potential of these nanomaterials in managing allergic airway diseases, highlighting their unique properties, and promising therapeutic approaches. Finally, the book concludes with a chapter on future directions, exploring emerging trends and potential advancements in the field. This book will be a valuable resource for academics, caregivers, researchers, and industry professionals working in the field of airway allergic diseases. It includes translational and clinical researchers, under-graduates and postgraduates (Masters), PhDs, and post-doctoral researchers of various disciplines, including pharmaceutical sciences, biotechnology, immunology, and medical and health sciences.

---