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Special Issue Reprint

Molecular Mechanisms, Diagnoses, and Treatments of Respiratory Diseases

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The Reprint *Molecular Mechanisms, Diagnoses, and Treatments of Respiratory Diseases* brings together cutting-edge research and comprehensive reviews that explore the complex landscape of respiratory health. Inspired by the global impact of COVID-19, this collection highlights the urgent need to better understand the molecular mechanisms underlying respiratory diseases and to translate these insights into effective diagnostic and therapeutic strategies.

The contributions cover a broad spectrum of respiratory conditions, including COVID-19, asthma, chronic obstructive pulmonary disease (COPD), interstitial lung disease (ILD), lung cancer, bronchiectasis, pulmonary infections, and pulmonary hypertension. Topics span from novel biomarkers and genetic associations to innovative diagnostic tools and treatment approaches, such as high-flow nasal cannula oxygen therapy, anti-fibrotic strategies, and precision medicine applications.

By integrating perspectives from basic science, clinical practice, and public health, this volume provides a valuable resource for researchers, clinicians, and policymakers seeking to improve patient care and outcomes. The reprint underscores the importance of interdisciplinary collaboration and translational research in addressing the growing burden of respiratory diseases worldwide. Ultimately, it aims to inspire continued innovation in early diagnosis, personalized therapies, and comprehensive disease management for diverse patient populations.



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