

Special Issue

Recent Advances in the Diagnosis and Management of Respiratory Disease: From Biomarkers to Treatment Decisions

Message from the Guest Editors

In the current decade, revolutionary approaches have been developed in multiple areas of respiratory medicine. Many of these have been in the area of diagnostic approaches, including the evolution of pulmonary function testing and forced and impulse oscillometry, use of exhaled biomarkers in clinical practice, as well as breathomics and volatile organic compound (VOC) analysis, modern interventional pulmonology techniques, point-of care-lung ultrasound (POCUS), molecular and genomic diagnostics, and novel imaging modalities incorporating artificial intelligence (AI) techniques. The management of respiratory disease has also incorporated novel approaches, including the wider use of biologics and monoclonal antibodies in airway disease, gene and mRNA therapies in genetic disorders including cystic fibrosis, targeted small-molecule novel treatments for fibrotic interstitial lung disease, smart inhalers and novel delivery devices for airway disease, novel inhaled and oral therapies for orphan lung diseases, and bronchoscopic and targeted therapies for lung cancer. This Special Issue welcomes novel approaches in the diagnosis and management of respiratory disease.

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