

## Special Issue

# Approaches to Ventilation in Intensive Care Medicine

### Message from the Guest Editors

Various types of manuscripts including research articles, expert reviews, and clinical practice guidelines aimed at enhancing patient outcomes and optimizing ventilatory support are welcome. Key topics encompass the evolution of ventilatory strategies—from airway management, traditional volume control ventilation, advances in ventilation monitoring methods, to advanced modes such as closed-loop ventilation, airway pressure release ventilation and extracorporeal membrane oxygenation (ECMO). The issue also addresses the physiological and pathological mechanisms underlying acute respiratory distress syndrome and other conditions necessitating mechanical ventilation, providing insights into personalized treatment approaches. Prominent researchers and clinicians are invited to contribute their perspectives on weaning protocols, sedation practices, and the impact of mechanical ventilation on long-term patient recovery. Additionally, the issue examines the role of artificial intelligence and machine learning in predicting ventilatory needs and improving decision-making in ICU.

### Guest Editors

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### Deadline for manuscript submissions

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