## **Special Issue**

# Advances in Anesthesia and Critical Care

## Message from the Guest Editor

We invite submissions for a Special Issue exploring the role of simulation, artificial intelligence (AI), and emerging technologies in anesthesia and intensive care. Contributions should highlight how these tools advance research and clinical practice. The COVID-19 pandemic exposed critical healthcare challenges, including ICU capacity constraints, physician shortages, and the need to sustain surgical activities. In response, modern technologies have driven innovations that enhance efficiency, precision, and patient safety. Al and machine learning offer promising solutions for optimizing decision-making, predicting outcomes, and personalizing treatments. This Special Issue welcomes original research, systematic reviews, and expert perspectives on: Al and machine learning in anesthesia and intensive care

Emerging technologies in perioperative care and ICU management

Innovations in crisis preparedness and response post-COVID-19 or future pandemics We welcome original research articles, systematic reviews, and expert perspectives that address these topics and help define the future of anesthesia and intensive care.

## **Guest Editor**

Dr. Gabriele Melegari

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#### Deadline for manuscript submissions

30 October 2025



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## Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

#### **Editor-in-Chief**

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