

Special Issue

Novel Challenges and Advances in Extracorporeal Membrane Oxygenation (ECMO)

Message from the Guest Editor

Extracorporeal Membrane Oxygenation (ECMO) has emerged as a critical technology for managing severe respiratory and cardiac failure. This Special Issue aims to highlight the latest advancements in ECMO technology, including clinical applications, patient outcomes, and future research directions. The topics covered include novel ECMO circuit designs, ECMO in various clinical scenarios, such as ARDS and cardiogenic shock, hemocompatibility, and anticoagulation strategies, ECMO in pediatric and neonatal populations, the lessons learned from ECMO use in COVID-19 patients, ECMO as a bridge to transplantation, ECMO in trauma and ECPR, the management of neurological complications in ECMO patients, and the long-term outcomes of ECMO survivors. Authors are encouraged to submit original research articles, reviews, and clinical studies related to ECMO. Submissions will undergo rigorous peer review, adhering to the journal's formatting guidelines. We invite contributions from researchers, clinicians, and experts in ECMO to share insights and advancements, ultimately aiming to improve patient outcomes and expand the applications of this life-saving technology.

Guest Editor

Dr. Michalina Kołodziejczak

Department of Anesthesiology and Intensive Care, Collegium Medicum Bydgoszcz, Nicolaus Copernicus University Torun, Antoni Jurasz University Hospital No.1, Bydgoszcz, Poland

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*Journal of Personalized
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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jpm@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Journal of Personalized Medicine is one of the few journals that covers the diverse areas involved in the field, including research at basic, translational, and clinical levels. It focuses on “omics”-level studies that seek to define the basis of interindividual variation in susceptibility for a disease, its prognosis or definition of clinical subsets, and response to therapy (pharmacogenomics). We are also interested in systems biology as it relates to interindividual variation, and research on new methodologies, informatics, and biostatistics, in the aforementioned areas.

Editor-in-Chief

Prof. Dr. Kenneth P.H. Pritzker

Department of Laboratory Medicine and Pathobiology, Department of Surgery, University of Toronto, 6 Queens Pk Crescent W.F, Toronto, ON M5S 3H2, Canada

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.5 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the first half of 2025).