

Special Issue

Research Advances in Blood Purification: New Techniques, Drugs and Indications

Message from the Guest Editors

Blood purification is an extracorporeal therapeutic modality that facilitates the removal of deleterious substances from the human body via extracorporeal circulation, with the goals of the treatment and maintenance of fluid balance. This topic is dedicated to clinical research concerning novel technologies, pharmacotherapies, and the associated complications of blood purification. Submissions that focus on cutting-edge research regarding artificial kidney and cell transplantation techniques are also encouraged, as are discussions on the application of blood purification methodologies to emerging indications. The topics of interest include, but are not limited to, the following areas:

- Personalized blood purification solutions.
- Risks of infection, coagulation, and complications during blood purification.
- Health effects of long-term blood purification and management practices.
- Current status of development of artificial kidney and cell transplantation techniques.
- Blood purification techniques in new indications.
- Dialysis and nutritional support.
- The effects of dialysis on drug metabolism and recommendations for safe use.

Guest Editors

Dr. Zibo Xiong
Dr. Guang Yang
Dr. Fengping Zheng

Deadline for manuscript submissions

closed (31 January 2026)



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Kidney and Dialysis
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
kidneydial@mdpi.com

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About the Journal

Message from the Editor-in-Chief

In recent years, we have been witnessing dramatically increased interest in the treatment of chronic kidney disease, e.g., diabetic kidney disease, glomerular disease, or autosomal dominant polycystic kidney disease, but also aimed more generally on the progression of chronic kidney disease and the complications of chronic kidney disease, such as anemia, or hyperkalemia. This progress has led to changing paradigms as reflected by several recently published KDIGO guidelines which now need to be updated much more frequently than before. To personalize treatment, we also need better diagnostic methods, including validated biomarkers reflecting the activity of the disease (including response to treatment) and predicting outcomes.

Kidney and Dialysis aims to cover most of these areas not only in terms of feature reviews, but also original articles, and to keep the reader updated on recent progress in nephrology and dialysis.

Editor-in-Chief

Prof. Dr. Francesco Locatelli

Former Director, Department of Nephrology and Dialysis, Alessandro Manzoni Hospital, 23900 Lecco, Italy

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