



## **Kidney Dialysis: Challenges and Opportunities**

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### **Message from the Guest Editors**

Globally, we are facing a dramatic ecologic disaster caused by man. Healthcare is an important part of this problem. Nephrology care, especially dialysis, creates an excessive burden via water and energy consumption, greenhouse gas emission, and waste production. In this Special Issue, potential solutions related to the prevention of kidney disease, kidney transplantation, and green dialysis for both Western as well as non-Western countries will be discussed. For dialysis, suggestions include lowering water consumption, implementing energy-neutral policies, waste triage, and recycling of materials. Proposals such as dialysate regeneration, dialysate flow reduction, water distillation systems for dialysate production, heat pumps for unit climatization, heat exchangers for dialysate warming, biodegradable and bio-based polymers, alternative power sources, repurposing of plastic waste (e.g., incorporation in concrete), registration systems of ecologic burden, and platforms to exchange ecologic best practices are addressed. Submissions for this Special Issue could relate but are not limited to the above-mentioned topics.





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## Editor-in-Chief

**Prof. Dr. Francesco Locatelli**  
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## 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.

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