

## Special Issue

# Acute Kidney Injury and Chronic Kidney Disease: From Pathogenesis to Diagnostics

### Message from the Guest Editors

Acute kidney injury (AKI) and chronic kidney disease (CKD) are characterized by impairment in kidney function due to several genetic and epigenetic factors, such as nutritional aspects, infections, metabolic disorders, autoimmune diseases, drugs, and toxins. Metabolic derangements, inflammatory processes, the various types of regulated cell death, and renal hemodynamic changes may all contribute to the development of kidney dysfunction. The aim of this Special Issue is to provide further information and data regarding the pathogenesis of AKI and CKD. In addition, the plethora of existing biomarkers as well as their efficacy in deciphering etiology, different phenotypes of AKI and CKD, and their prognostic potential will be further discussed. In this context, the advent of multi-omics techniques together with machine learning algorithms is of paramount importance. Therefore, we welcome submissions focusing on the latest advances in the pathogenetic mechanisms that underlie the pathophysiology of AKI and CKD. Furthermore, we are anticipating manuscripts regarding the usefulness of novel biomarkers on the timely diagnosis for the different subtypes of AKI and CKD.

### Guest Editors

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### Deadline for manuscript submissions

31 August 2025



## Diagnostics

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### Editor-in-Chief

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