

## Special Issue

# Molecular and Cellular Mechanisms in Kidney Pathophysiology

### Message from the Guest Editors

The intent of this Special Issue is to highlight research in the cellular and molecular pathophysiology of the kidney. Kidney diseases are a significant burden on healthcare systems globally, and their prevalence is rising. We invite submissions that explore novel insights into the molecular and cellular mechanisms underlying various kidney pathologies, including but not limited to diabetic nephropathy, hypertension-related kidney injury, and glomerular diseases. We are particularly interested in studies that address the following topics:

- Molecular pathways and mechanisms of signal transduction, gene regulation, and molecular interactions that contribute to kidney disease progression and severity.
- Cellular responses to injury, including inflammation, fibrosis, and cell death, and how these processes affect kidney function and structure.
- Advances in therapeutic strategies targeting specific molecular and cellular pathways in kidney disease.
- Development and application of new experimental models that enhance our understanding of kidney pathophysiology and facilitate the translation of basic research into clinical applications.

### Guest Editors

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### Deadline for manuscript submissions

closed (20 May 2025)



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### Message from the Editorial Board

*Biomolecules* is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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### Editors-in-Chief

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