

Special Issue

Kidney Disease: From Pathophysiology to Personalized Approaches

Message from the Guest Editors

Kidney disease is complex and heterogeneous, posing a major challenge to modern medicine. Despite progress in nephrology, the molecular drivers of injury, inflammation, and fibrosis remain poorly understood, especially regarding renal cell communication and disease-specific signatures. Advances in transcriptomics, single-cell and spatial profiling, biomarkers, and integrative omics now enable better mechanistic understanding and precision strategies. This Special Issue invites original research and reviews on omics-based and biomarker-driven insights into kidney disease, focusing on cellular crosstalk and disease progression. We welcome studies on acute and chronic kidney disease, diabetic kidney disease, glomerular and tubular disorders, and fibrosis—particularly those exploring intercellular signaling, molecular profiles, biomarker discovery, and therapeutic targets. By integrating advanced molecular profiling with clinical relevance, this Issue provides a platform linking kidney biology to precision medicine. We highlight how omics, biomarkers, and insights into renal cell–cell communication can improve disease stratification, early detection, and individualized care.

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Deadline for manuscript submissions

30 December 2026



Life

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/278620

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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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