

Special Issue

Regulatory Mechanisms in Kidney Development and Function

Message from the Guest Editor

Development and function of the kidney is governed by conserved regulatory networks combining signaling pathways and transcriptional hierarchies. The molecular mechanisms of nephrogenesis exhibit both species-specific and conserved dynamics, with disruptions in many developmental mechanisms directly linked to renal diseases. Recent discoveries, method advancements, translational and pharmaceutical improvements have aided the nephrology community in understanding the mechanisms of kidney development, function, and disease implications. Joint efforts that bridge disciplines have blazed an understanding in cell type-specific expression profiles, gene discovery, and novel biomarkers of health and injury. The culmination of large-scale -omic technologies has created new avenues for research that are still being uncovered. The focus of this Special Issue is to assemble recent developments and cutting-edge research on regulatory mechanisms of kidney development and function for illuminating groundbreaking advancements.

Guest Editor

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Deadline for manuscript submissions

30 September 2025



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/237057

*International Journal of
Molecular Sciences*
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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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