

Special Issue

Oxygen Homeostasis, Oxidative Stress, and Inflammation in Kidney Health and Disease

Message from the Guest Editors

The kidneys are organs with high energy demands due to their heavy workload, which involves the filtration and reabsorption of nutrients, minerals, and electrolytes. The kidneys are also involved in the regulation of blood pressure and pH and vitamin D maturation and erythropoiesis. As such, the kidneys are constantly exposed to numerous insults, which can trigger acute kidney injury (AKI) and chronic kidney disease (CKD), including diabetic nephropathy. While it has been generally established that hypoxia, redox imbalance, oxidative stress, mitochondrial dysfunction, and inflammation are all implicated in the pathogenesis of AKI and CKD, the detailed mechanisms behind them still need to be unraveled in order to explore novel therapeutic targets to combat kidney disease. For this purpose, we are launching this Special Issue, and we welcome research focusing on any aspect of the above-mentioned pathological processes. Both original research articles and review articles will be considered.

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Deadline for manuscript submissions

closed (20 February 2025)



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/214068

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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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