

Special Issue

Diagnosis and Monitoring of Kidney Disease: From Biology to Biomarkers

Message from the Guest Editors

Chronic kidney disease (CKD) is a worldwide public health problem. In its early stages, CKD is *usually asymptomatic* and is often undiagnosed, given the low sensitivity of classic kidney biomarkers to identifying early renal damage. Knowledge of kidney disease biology, and namely of the biomolecules and molecular mechanisms that play key roles in its development and progression, is crucial for improving the management of this condition. The elucidation of the molecular signaling pathways involved in critical components of CKD-*related* pathologies, such as inflammation, oxidative stress, anemia, and renal fibrosis, is the first step in achieving early diagnoses and effective monitoring. Further, any attempt to identify the biomolecules that can be used as biomarkers of early renal lesions and of kidney disease progression should be encouraged. Reliable biomarkers will assist clinicians in diagnosis and treatment monitoring, avoiding, or minimizing, the worsening of CKD. In this Special Issue, we intend to gather manuscripts that debate/report on recent advances in knowledge of kidney disease, from its biology to its biomarkers of interest.

Guest Editors

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Message from the Editor-in-Chief

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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