

Special Issue

Pathophysiology of Acute Kidney Injury

Message from the Guest Editor

Acute kidney injury (AKI) is a public health concern, and its clinical importance derives from its high morbidity and mortality rates. Continuous efforts are being made to understand AKI pathophysiology and identify timely non-invasive biomarkers for the early and efficient detection of AKI. A detailed understanding of AKI pathobiology will be of great value to avoid its progression to chronic kidney disease. This Special Issue aims to cover the most recent research findings in the following areas: a) the molecular mechanisms (particularly oxidative stress, tubular proliferation, and inflammation) involved in AKI and AKI-to-CKD transition, b) the molecular significance of repeated AKI on CKD progression, c) the impact of targeting a particular protein to study its relevance in the AKI pathobiology, d) the renoprotective mechanisms of pharmacological or antibiotics to reduce AKI, e) emerging new biomarkers for the timely detection of AKI, and f) the mechanisms involved between AKI development and higher mortality in COVID-19 patients.

Guest Editor

Dr. Norma A. Bobadilla

1. Instituto de Investigaciones Biomedicas de la UNAM, Mexico City 14080, Mexico
2. Instituto Nacional de Ciencias Médicas y Nutrición, Salvador Zubirán, Mexico City 14080, Mexico

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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