

Special Issue

Molecular and Biochemical Advances in Kidney Diseases and Genetics

Message from the Guest Editor

Over 850 million people suffer from kidney disorders (KDs), which are a serious and expanding public health concern. Acute kidney injury (AKI) affects approximately 10–15% of hospitalized patients and occurs in more than 50% of those admitted to intensive care units. Despite its frequent occurrence in clinical settings, AKI remains poorly understood from a pathophysiological standpoint. Chronic kidney disease (CKD) is a progressive pathological condition characterized by a glomerular filtration rate (GFR) below 60 mL/min/1.73 m² and/or at least one indicator of renal function impairment, lasting for at least three months. The pathophysiology and consequences of chronic kidney disease are driven primarily by inflammation, elevated oxidative and metabolic stress, endothelial dysfunction, vascular calcification resulting from inadequate calcium and phosphate metabolism, and coagulation abnormalities. The purpose of this Special Issue is to offer a venue for the presentation of research on pathophysiology, biochemistry, molecular biology, and any other topics on the disruption of molecular mechanisms in the development of kidney diseases.

Guest Editor

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Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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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