

## Special Issue

# Exploring the Molecular Mechanisms of Chronic Kidney Disease

### Message from the Guest Editor

Chronic kidney disease (CKD) is a global challenge, currently affecting approximately 1 in 10 individuals, accounting for over 800 million people with CKD worldwide. Unfortunately, the prevalence of CKD is increasing, estimated to become the fifth leading cause of death by 2040, which underscores the significant social and economic impact of this devastating disease. Research efforts focus on the prevention of CKD progression and associated complications that usually lead to increased hospitalization and higher mortality risk. Understanding the distinct molecular mechanisms underlying CKD development is key for identifying new therapeutic approaches and achieving the optimization of patient care. This Special Issue aims to compile cutting-edge research on the molecular features of renal diseases and CKD-associated disorders, including metabolic bone disease, anemia, cardiovascular disease, diabetes and hypertension. In addition, novel molecular actions of current treatments and emerging drugs, as well as future strategies for preventing complications associated with dialysis or renal transplantation are also included.

### Guest Editor

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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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### Editor-in-Chief

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