

Special Issue

Urolithiasis: From Molecular Pathology to Novel Therapeutic Approach

Message from the Guest Editor

Urinary stones are a common condition among the general population, with a current prevalence of 10–15% and a lifetime recurrence risk of 60–80%. Although usually considered a benign condition, a variety of severe events are associated with urinary stones, including severe pain, risk of death due to severe infectious complications, and renal function loss. The main aspects of stone formation have been investigated, including the role of renal cell injury, retention of crystals, cell apoptosis, role of Randall's plaques, stone inhibitors and promoters, and their genetics.

This issue aims to provide an updated overview of most recent developments and advancements in urolithiasis research, including the understanding of molecular bases, physicochemical and genetic aspects of stone formation, the role of risk factors, and the effect of surgical treatments and urinary tract obstruction in the renal parenchyma. Also, we aim to offer to researchers an opportunity to present studies on new pharmacological treatments, including original research and reviews.

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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