

Special Issue

Mechanisms in Aquatic Toxicology

Message from the Guest Editor

Molecular technologies have enabled the development of systems biology approaches allowing us to describe the underlying aquatic toxicological mechanisms to an incredible level of detail. Simultaneously, conceptual frameworks for organizing and structuring toxicological information—most notably the adverse outcome pathway framework—are currently being adopted worldwide, facilitating real-life decision making processes by identifying causal linkages between mechanistic data and biological endpoints that are relevant to risk assessment. This convergence of high-quality, data-rich fundamental science with tractable and transparent application strategies provides a strong basis for facing the complex toxicological challenges of 21st century society. This Special Issue aims to advance our understanding of the impact of toxicants on aquatic organisms and ecosystems, and to contribute to the development of new approaches and applications in aquatic toxicology. We welcome manuscripts that focus on any of these areas, from the fundamental understanding of toxicological mechanisms to computational prediction and regulatory applications of mechanistic aquatic toxicity data.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2019)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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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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