

## Special Issue

# Pharmaceuticals in the Aquatic Environment: Monitoring, Impacts and Ecological Risk

### Message from the Guest Editor

Pharmaceuticals are essential for human and animal health. However, after their use, these compounds are generally rapidly excreted, mainly in faeces and urine, as water-soluble metabolites. These often reach wastewater treatment plants (WWTPs), where, in addition to not being eradicated, some become active compounds with harmful effects on aquatic species and ecosystems. Moreover, unused pharmaceuticals can cause a severe risk if they reach the environment due to improper disposal. Ultimately, parental compounds or their metabolites may affect humans and domestic animals via drinking water and the ingestion of its byproducts in meat, animal feed, and dairy plant crops, among others. This aspect may cause undesirable health issues for humans and animals. In this Special Issue, we aim to collate studies referring to the environmental presence and impact of pharmaceuticals, such as hormones, antibiotics, antidepressants, anti-inflammatories and analgesics, beta-blockers, and anticancer medications, ideally offering a global panorama of the contamination of aquatic abiotic and biotic matrices and its impacts on both animal and human health.

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### Guest Editor

Dr. Maria João Rocha

Institute of Biomedical Sciences Abel Salazar and Interdisciplinary Centre for Marine and Environmental Research, University of Porto, Porto, Portugal

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### Deadline for manuscript submissions

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## Toxics

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## About the Journal

### Message from the Editor-in-Chief

*Toxics* (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

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### Editor-in-Chief

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