

## Special Issue

# Freshwater Quality Assessment: Development and Measurements of Biomarkers in Invertebrates

### Message from the Guest Editor

Freshwater ecosystems are among the most threatened habitats on Earth, due to anthropogenic impacts resulting in a loss of biodiversity. Although monitoring of chemical and ecological status is a fundamental tool for assessing the quality of the environment, they provide information on the presence of pollutants that is not sufficient to analyze the pollution impacts on organisms. Consequently, biomarker use is of interest in the evaluation of the quality of freshwater environments. Many biomarkers are already developed, well-established, and used on aquatic vertebrates to assess the freshwater environment's quality. Therefore, this Special Issue is seeking original, unpublished papers on the development and use of biomarkers on invertebrates. Additionally, specific emphasis will be on: (i) the influence of confounding factors (biotic and abiotic), (ii) the knowledge of natural variations of the considered biomarkers, and (iii) their specific response for certain pollutants families and their time- and dose-dependent responses, which still make it difficult to use biomarkers in the field.

### Guest Editor

Dr. Eric Gismondi

Laboratory of Animal Ecology and Ecotoxicology (LEAE) - Freshwater and Oceanic Sciences Unit of ReSearch (FOCUS), Chemistry Institute, University of Liège, 4000 Liège, Belgium

### Deadline for manuscript submissions

closed (30 September 2020)



## Environments

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## About the Journal

### Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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### Editor-in-Chief

Prof. Dr. Sergio Ulgiati

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