Special Issue

Recent Advances in the Use of Biomarkers as an Ecotoxicology Set of Tools

Message from the Guest Editors

The development and application of biomarkers as tools to study early warning organisms' response to environmental pollution has become crucial to understand some response patterns as well as to define modes of action of certain chemical compounds. Some biomarkers of great ecological relevance are related to the immune response, oxidative stress, genotoxicity, energy metabolism, endocrine disruption, genotoxicity, and immunotoxicity. More recently, the use of a battery of defense and damage biomarkers has allowed us not only to evaluate the single effects of chemical compounds on organisms but also effects induced by chemical mixtures, including those of microplastics acting as vectors for organic and inorganic contaminants. Recent research has been using the information generated by the analysis of biomarkers in areas such as animal physiology, aquaculture, nutrition, and biotechnology. We are inviting research studies presenting novel aspects of biomarker application in ecotoxicology, studies of comparative physiology, and proposals of novel methodologies and approaches to link individually biomarkers with higher levels of biological organization.

Guest Editors

Dr. Carlos Gravato
Faculty of Sciences, University of Lisbon, Lisbon, Portugal

Dr. Fabianne Ribeiro
CESAM & Department of Biology, University of Aveiro, Aveiro, Portugal

Deadline for manuscript submissions

closed (31 March 2023)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/112124

Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/journal/water

About the Journal

Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)

MDPI