



water

an Open Access Journal by MDPI



Antibiotics in Water and Wastewater and Their Effects on Microbial Communities

Guest Editor:

Dr. Anna Lenart-Boroń

Department of Microbiology,
University of Agriculture, Kraków,
Poland

Deadline for manuscript
submissions:

closed (28 February 2023)

Message from the Guest Editor

Nowadays, it is impossible to imagine the modern world without chemical agents, including antibiotics, which in the 20th century were considered a miraculous discovery of medicine. However, the consequence of their widespread use and abuse, as well as improper and non-intended use, is their presence and spread in the environment, particularly in aquatic ecosystems. Their durability and mobility in the environment allow them to penetrate from sewage treatment plants and household and agricultural sewage, along with surface runoff, into natural waters, including shallow and deep circulation groundwater. Although the observed concentrations of antibiotics are often not harmful to humans, their sub-lethal concentrations contribute to increasing bacterial resistance to these substances and alter the microbial community's composition. It has been demonstrated that an inflow of a variety of contaminants into water resources, including antimicrobial agents and/or allochthonous microorganisms, is a worldwide problem. [...]

For further reading, please follow the link to the special issue website at:

https://www.mdpi.com/journal/water/special_issues/antibiotics_wastewater



[mdpi.com/si/121493](https://www.mdpi.com/si/121493)

Special Issue

an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Laboratory of Functional Ecology
and Environment, Centre
National de la Recherche
Scientifique (CNRS), University of
Toulouse, Campus ENSAT,
Auzeville Tolosane, France

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.

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 (*Water Science and Technology*)

Contact Us

Water Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](https://twitter.com/Water_MDPI)