

Special Issue

Antibiotic Resistance in the Water Environment

Message from the Guest Editor

As antibiotic-resistant bacteria (ARB) are recognized as a global threat for human health, great efforts to fight them have been made worldwide and lots of actions against ARB are ongoing in a “One-health approach” involving not only human but animal and environment health. To acceralate such actions, we need to accumulate the data and knowledge from scientific research, especially in water environments which receive effluents from human society and play a role as the sink of ARB and resistant genes (ARGs). This Special Issue aims to a showcase of the latest studies on ARB in the water environment and welcomes manuscripts concerning:

- Prevalence of ARB and ARGs in the water environment affected by human activities such as munisicpal and industrial wastewaters, animal husbandry and agriculture.
- Comparison of ARB and ARGs detected in the water environment between developed and developing countries.
- Potentials of ARB growth and ARGs transmission in the water environment.
- Residual antibiotics and its impact on ARB in the water environment.
- New technologies for research on the above topics

Guest Editor

Prof. Dr. Toru Watanabe

Department of Food, Life and Environmental Sciences, Yamagata University, Yamagata 997-8555, Japan

Deadline for manuscript submissions

closed (31 May 2022)



Antibiotics

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.7
Indexed in PubMed



mdpi.com/si/100833

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

[mdpi.com/journal/
antibiotics](https://mdpi.com/journal/antibiotics)





Antibiotics

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.7
Indexed in PubMed



[mdpi.com/journal/
antibiotics](https://mdpi.com/journal/antibiotics)



About the Journal

Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciplines are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

Editor-in-Chief

Prof. Dr. Nicholas Dixon
School of Chemistry and Molecular Bioscience, University of
Wollongong, Wollongong, NSW 2522, Australia

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), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Infectious Diseases) / CiteScore - Q1 (General Pharmacology, Toxicology and Pharmaceutics)