

Special Issue

The Role of Probiotics in the Development of Sustainable Aquaculture

Message from the Guest Editor

Aquaculture, which represents one of the largest food production sectors in the world, is practiced with a wide variety of extensive to superintensive technologies for culturing a large number of vertebrate and invertebrate species in sea and freshwater. Ensuring good health and well-being of animals is a cornerstone in all these systems, in which probiotics offer a sustainable and eco-friendly alternative to replacing antibiotics and synthetic chemicals. Beneficial microbes play a pivotal role in regulating health conditions directly and by helping the immune system, growth performance, and feed utilization of animals. Their use in aquafeeds was the first area of intense development, which remains ongoing. However, the application of probiotics offers effective new and sustainable ways of maintaining good water quality and even increasing the biomass of natural food organisms in different pond cultures. Developments in microbiome science are opening new frontiers of research for probiotics, prebiotics, and postbiotics not only in human healthcare but also in aquaculture.

Guest Editor

Prof. Dr. Csaba Hancz

Faculty of Agricultural and Environmental Sciences, Hungarian University of Agriculture and Life Sciences (MATE), Kaposvár Campus, H-7400 Kaposvár, Hungary

Deadline for manuscript submissions

closed (10 December 2022)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/120266

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

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





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



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



About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)