



Potential Application of Probiotics for Sustainable Aquaculture

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Deadline for manuscript
submissions:

closed (15 June 2024)

Message from the Guest Editor

The increase in global aquaculture production is having a negative impact on the environment. These negative effects include dependence on the use of fishmeal and fish oil to feed carnivorous species, pollution of the aquatic environment with wastewater effluents, and the use of antibiotics for the treatment of infectious diseases, which affects the environmental microbiota and generates resistant pathogens that can cause public health risks.

As a solution to these effects, there is the possibility of using probiotic microorganisms. These microorganisms can positively affect aquaculture in several ways: they facilitate feed digestibility and provide essential nutrients that can reduce the need for fishmeal and fish oil; they can break down organic debris, thus enabling effluent purification; and their activity as immunostimulants and pathogen antagonists reduces the need for antibiotics and other chemotherapeutics.

Thus, the aim of this Special Issue is to expand knowledge on the wide range of applications of probiotics to improve sustainability in aquaculture.





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Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2024).

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