



## Fish Pathogens: Infection and Biological Control

Guest Editors:

**Prof. Dr. Ulisses De Pádua  
Pereira**

Laboratory of Fish Bacteriology  
(LABBEP), Department of  
Veterinary Preventive Medicine,  
State University of Londrina,  
Londrina, PR, Brazil

**Dr. Mateus Matiuzzi Da Costa**

Department of Biological  
Sciences, Universidade Federal  
do Vale do São Francisco,  
Petrolina 56304-917, PE, Brazil

**Prof. Dr. Vasco Azevedo**

Institute of Biological Sciences,  
Federal University of Minas  
Gerais, Belo Horizonte 31270-  
901, Brazil

Deadline for manuscript  
submissions:

**closed (15 May 2024)**

### Message from the Guest Editors

In recent decades, the field of fish farming has reported many emergent pathogens as new genotypic profiles or through emerging new pathogens, resulting in relevant losses of production. Therefore, the relation of the pathogen to its host (pathogenesis in one or more hosts to define host predilection), genetic/genomic characterization and, additionally, probiotics as an alternative control of the impact of disease should be further explored. This Special Issue aims to explore the boundaries of our scientific knowledge, focusing on increasing our knowledge about emergent fish pathogens and increasing applicable strategies related to the control (biocontrol and immune stimulation), prevention and immunoprophylaxis of fish emergent pathogens. We welcome the submission of original research articles and reviews on topics including (but not limited to) the following:

Emergent fish pathogens: the characterization of production losses due to outbreaks, genetic/antigenic profiles of pathogen and/or tissue lesions, and host adaptability;

Comparative genomics studies of emergent fish pathogens;

Probiotics as a control of emergent fish pathogens.





# ***fishes***



an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Maria Angeles Esteban**

Department of Cell Biology and Histology, Faculty of Biology, University of Murcia, 30100 Murcia, Spain

## Message from the Editor-in-Chief

*Fishes* is a multidisciplinary open access journal focusing on reports of original research and critical reviews and synthesis from the broad area of fishes and aquatic animals. The ultimate objective of *Fishes* is to facilitate the discovery of connections between research areas, advancing science and filling knowledge gaps, and providing solutions for all present and future issues encountered in the sector of fisheries and aquaculture. As Editor-in-Chief, I encourage you to consider *Fishes* for your scientific papers and would be pleased to welcome you as one of our authors.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubAg](#), [FSTA](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Marine & Freshwater Biology*)

## Contact Us

---

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

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/fishes](http://mdpi.com/journal/fishes)  
[fishes@mdpi.com](mailto:fishes@mdpi.com)  
[X@Fishes\\_MDPI](https://twitter.com/Fishes_MDPI)