



fishes

an Open Access Journal by MDPI



The Three Otolith Pairs in Teleosts and Their Application in Eco-Morphological, Ecological, and Systematic Studies

Guest Editors:

Dr. Claudio D'Iglio

Dr. Sergio Famulari

Dr. Gioele Capillo

Deadline for manuscript
submissions:

closed (16 April 2025)

Message from the Guest Editors

In recent decades, otoliths have proven to be of great scientific value in research dealing with teleost fishes' ecology, zoology, and physiology. Due to their high intra- and inter-specific variability, metabolic inertia, and growing process in daily increments of carbonate deposition, they have attracted increasing interest in population studies, eco-morphological investigations, and palaeontological, systematic, and physiological research.

The development and morphology of the three otolith pairs occur under the dual influence of environment and genetics. For this reason, they are perfect for investigating the eco-morphological adaptation of teleost fishes to different habitats and environmental pressures. This Special Issue will be focused on the current research on otoliths (papers on *sagittae* are particularly welcome, but those on *lapilli* and *asterisci* will also be gladly accepted), dealing with the exploration of eco-morphological adaptations and phenotypic plasticity in teleosts, their intra- and inter-specific variability, and population and life habit studies exploring their microchemistry.

Dr. Claudio D'Iglio
Dr. Sergio Famulari
Dr. Gioele Capillo
Guest Editors



mdpi.com/si/203640

Special Issue



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 - Q1 (Marine and Freshwater Biology)

Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.9 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

Contact Us

Fishes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/fishes
fishes@mdpi.com
[X@Fishes_MDPI](#)