

Editorial

# Hydrobiology: A New Open Access Journal for the Rapid Dissemination of the Latest Discoveries on Aquatic Biodiversity and Ecosystems

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We are pleased to announce the launch of *Hydrobiology* (ISSN 2673-9917) [1], a new open access journal that offers an excellent opportunity to establish an exciting forum for the discussion and dissemination of high-quality research in freshwater and marine biology, limnology, fisheries, oceanography, and aquatic ecology. We welcome innovative, hypothesis-driven papers on current scientific challenges as well as on new methodological tools and approaches to monitor aquatic biodiversity and ecosystems that tackle the socio-ecological complexity and the management of aquatic ecosystems.

The aim of this open access transdisciplinary journal is to promote the presentation and discussion of results and ideas related to all fields of hydrobiology, spanning from freshwater, groundwater, estuarine, or marine habitats. Topics of interest within the scope of the journal include:

## Scientific Advances in Hydrobiology

- Taxonomic, genetic, and functional biodiversity in aquatic ecosystems;
- Systematic, taxonomy, and biology of aquatic organisms (fauna, flora, microorganisms, and all living species in the aquatic environment);
- Aquatic community assembly and distribution;
- Aquatic ecosystem processes and functioning;
- Environmental biogeochemistry;
- Microbial ecology;
- Aquatic–terrestrial interactions, i.e., inter-connections among terrestrial, inland aquatic, and marine ecosystems;
- Aquatic biodiversity and ecosystem functioning, with a focus on the functional consequences of biodiversity loss;
- Aquatic food webs and biotic interactions in planktonic or benthic communities;
- Eco-physiological responses to stressors;
- Ecological responses to global change, including climate change;
- Impacts of multiple stressors;
- Mechanistic understanding across scales (molecular-, population-, community-, or ecosystem-level);
- Aquatic ecotoxicology, including the risks posed by emerging contaminants (e.g., nanoparticles, micro- and nanoplastics, pharmaceuticals).

## Novel Tools and Approaches in Hydrobiology

- Indicators of ecosystem shifts, biodiversity, and habitat loss;
- Bioindicators and biomarkers as early warning indicators of stress;
- Next-generation sequencing in aquatic biomonitoring to depict taxonomic, genetic, and functional diversity;



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- Hydro-climatic models;
- Ecological modelling;
- Eco-informatics in hydrobiology;
- Remote sensing;
- Bioremediation techniques;
- Restoration of aquatic ecosystems.

#### **Socio-Ecological Challenges and the Management of Aquatic Ecosystems**

- Fisheries and aquaculture;
- Impacts and control of biological invasions;
- Aquatic biodiversity conservation;
- Ecosystem services;
- Environmental risk assessment;
- Environmental management;
- Policy frameworks;
- Citizen science in hydrobiology.

The journal will publish regular research articles, reviews, and short notes and will host Special Issues on hot topics in hydrobiology. We encourage contributions from broad range of ecological interests and impacts. Results from large temporal and spatial scales are particularly welcome. We provide rapid dissemination and high visibility for your publication. We are looking forward to receiving your contributions to *Hydrobiology*.

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#### **Reference**

1. *Hydrobiology* Home Page. Available online: <https://www.mdpi.com/journal/hydrobiology> (accessed on 10 June 2021).