

Special Issue

Research Advances in Aquatic Omics

Message from the Guest Editors

Multi-omics technologies (genomics, transcriptomics, proteomics, metabolomics) have significantly advanced biological and biomedical research. Aquatic animals, vital to ecosystems and aquaculture, greatly benefit from these approaches, which enhance our understanding of their biology and contribute to evolutionary and biomedical discoveries. Major aquatic omics projects like Fish10K and Fish-T1K have expanded genomic resources and revealed the functions of key macromolecules (proteins, peptides, RNAs), yet data remains limited. Integrative omics enables identification of novel bioactive substances and supports marine drug development. This Special Issue welcomes studies integrating omics data from aquatic species (fish, shrimp, crabs, invertebrates), offering valuable insights for breeding and biomedicine. Manuscripts should address molecular networks, structural predictions, and biosynthetic pathways of functional macromolecules. We invite Original Research and Reviews on:

- **Omics in aquatic biology**
- **Evolution and adaptation**
- **Functional macromolecules and their networks**
- **Expression patterns and bioactivity of functional molecules**

We look forward to your contributions.

Guest Editors

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About the Journal

Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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