

Special Issue

Molecular, Genetic and Genomic Insights into Marine Organisms: From Mechanisms to Ecology

Message from the Guest Editor

Marine organisms exhibit extraordinary physiological and ecological diversity shaped by molecular, genetic, and genomic processes. This Special Issue will collect original research and reviews that apply molecular, genetic, and genomic tools to address mechanistic and ecological questions in marine systems. Contributions should integrate molecular data (genomics, transcriptomics, proteomics, epigenomics, eDNA) with ecological, evolutionary, or conservation contexts. Research areas may include (but not limited to) the following: Population genomics, phylogeography, and connectivity of marine species; Functional genomics and transcriptomic responses to environmental stressors; Epigenetic mechanisms and phenotypic plasticity in marine organisms; Molecular bases of symbiosis, host–microbe interactions, and disease ecology; Environmental DNA (eDNA), metabarcoding, and molecular monitoring tools; Conservation genomics, management units, and genetics-informed restoration; Comparative and evolutionary genomics across marine taxa; Multi-omics integration and methodological advances for non-model species. We look forward to receiving your contributions.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2026)



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Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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