

Special Issue

Latest Advances in Aquatic Genetic Improvement

Message from the Guest Editors

The global aquaculture industry is confronted with challenges such as resource constraints, frequent diseases, and ecological sustainability, urgently requiring breakthroughs through the deep integration of genetic improvement and intelligent technologies. This Special Issue focuses on innovation in aquaculture genetic breeding and intelligent farming technologies, systematically summarizing the collaborative application of technologies such as genome editing, molecular design breeding, artificial intelligence (AI), and environmental big data analysis to cultivate new aquatic species with strong stress resistance and high growth efficiency, as well as to establish resource-saving farming models. The scope of this Special Issue is as follows: genetic improvement technologies for aquatic animals such as fish, shrimp, crabs, and shellfish, as well as key issues in intelligent aquaculture such as environmental monitoring and data-driven decision-making.

Guest Editors

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Deadline for manuscript submissions

30 January 2026



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) 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, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *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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