

Special Issue

Marine Fungi: From Molecular Biology to Biotechnology Application

Message from the Guest Editor

Marine fungi exhibit widespread distribution across various native marine habitats such as seawater, marine sediments, estuaries, algae, marine invertebrates, animals, and mangrove ecosystems. Surprisingly, they have also been identified in exceptionally harsh environments such as deep-sea extremes. Due to their robust adaptation to such extreme conditions, marine fungi are believed to possess diverse capabilities for synthesizing functional biomolecules. These biomolecules encompass a range of valuable discoveries, including fine chemicals, biofuels, enzymes, bioactive compounds, single-cell proteins, and nanoparticles. These functional biomolecules have significant potential across food, chemical, agricultural, biofuel, and pharmaceutical industries. This Special Issue will curate original research and review articles focused on the molecular biology and biotechnological applications of marine fungi. Emphasizing topics such as new strain resources, genetic tool platforms, metabolic regulatory mechanisms, the construction of cell factories, and the application of metabolites within marine fungi, this Special Issue will highlight cutting-edge advancements in this field.

Guest Editor

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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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