

## Special Issue

# Molecular Research on Microbial Natural Products

### Message from the Guest Editor

Rapid advancements in molecular biology and biotechnology have revolutionized the discovery, characterization, and application of microbial natural products (MNPs), which exhibit diverse bioactivities with potential applications in medicine, agriculture, and industry. This Special Issue aims to provide a comprehensive overview of the latest research findings, methodologies, and challenges in the field of MNPs. The scope of this Special Issue will encompass, but not be limited to, the following areas: (1) biosynthetic gene cluster (BGC) analysis for decoding and engineering MNP pathways; (2) structural elucidation and bioactivity profiling, including antimicrobial, anticancer, and immunomodulatory properties; (3) metabolic engineering and synthetic biology strategies to optimize microbial hosts for scalable MNP production; (4) translational applications, such as therapeutic drug development and eco-friendly agricultural solutions; and (5) sustainable biomanufacturing practices to minimize environmental impacts.

### Guest Editor

Prof. Dr. Wenli Li

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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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### Editor-in-Chief

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