

Special Issue

Recent Advances in Natural Compounds: Biosynthesis and Application

Message from the Guest Editors

Today, more than hundreds of thousands of specialized natural compounds are synthesized by living organisms or extracted from natural resources of terrestrial or marine origin worldwide. Research on these compounds is currently in high demand due to their biological activities and abundant potential applications in various fields. Numerous compounds have demonstrated beneficial effects both in vitro and in vivo, including antimicrobial (antibacterial, antiviral, antifungal), antioxidant, anti-inflammatory, and antiparasitic, antidiabetic, and anticancer effects, which are very closely related to their structure and chemical composition. This Special Issue aims to publish high-quality scientific research papers describing recent research on the biosynthesis of natural compounds, their chemical composition and structure, biological activities, molecular docking, and potential applications in various fields, including environment (e.g., natural water treatment), medicine (e.g., naturally derived antimicrobials), cosmetology (e.g., skin protectants), agriculture (e.g., fertilizers), and agri-food applications (e.g., natural additives), among others.

Guest Editors

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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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