

Special Issue

Biological and Biotechnological Applications of Natural Products: Development, Chemical Analysis, Structure Determination, Bioactivity

Message from the Guest Editor

Natural products have long been a cornerstone of drug discovery, food innovation, and agricultural advancement due to their immense chemical diversity and potent biological activities. From traditional medicine to cutting-edge biotechnology, natural products offer a valuable reservoir of bioactive molecules that can be harnessed for therapeutic, industrial, and environmental applications. To assess the biological, biotechnological, or therapeutic potential of natural compounds, it is necessary to understand their chemical composition, mechanism of action, biological activity, and potential health effects, among other factors. We invite original research articles and reviews focusing on the discovery, structural elucidation, and functional analysis of natural products from diverse sources: plants, fungi, bacteria, and more. Contributions highlighting innovative methods for bioactivity screening, molecular docking, biosynthetic pathway elucidation, and biotechnological applications are especially welcome. Through this collection, we seek to deepen our understanding of natural products and advance new strategies for their application in health, agriculture, and industry.

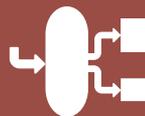
Guest Editor

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