

Special Issue

Natural Products and Modern Drug Discovery: Emerging Strategies Targeting Cancer- and Disease-Related Molecular Mechanisms

Message from the Guest Editor

This Special Issue focuses on the utilization and development of natural products as a foundation for modern drug discovery, particularly in addressing the molecular mechanisms underlying cancer and other diseases.

We invite submissions in areas including, but not limited to, the following:

Isolation, structural elucidation, and bioactivity profiling of novel natural products.

Strategies for sourcing and screening natural compounds (e.g., microbial, marine, and plant-based).
Biosynthetic pathway engineering and synthetic biology approaches.

Semisynthetic and total synthesis of natural product derivatives.

Structure–activity relationship (SAR) studies of natural molecules.

Natural product libraries and high-throughput screening platforms.

Integration of AI, molecular docking, or pharmacophore modeling in natural product-based design.

Role of natural products in overcoming drug resistance or targeting novel disease mechanisms.

We welcome original research articles, reviews, and perspective pieces that contribute to the scientific advancement of natural product-based drug discovery.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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