

Special Issue

Biological Evaluation of Plant Extracts

Message from the Guest Editor

Medicinal plants have been traditionally used for centuries in the treatment of various diseases, and modern scientific approaches aim to validate and expand this knowledge through rigorous experimental methods. Biological evaluation involves a wide range of in vitro and in vivo assays designed to assess pharmacological activities, such as antimicrobial, anti-inflammatory, antioxidant, cytotoxic, and immunomodulatory effects. These studies also encompass toxicity screening to ensure safety and identify potential side effects. The efficacy of plant extracts is largely influenced by their phytochemical composition, which includes alkaloids, flavonoids, terpenoids, phenolic compounds, and other bioactive constituents. The standardization of extract preparation, accurate quantification of active compounds, and reproducible testing models are essential for generating reliable data.

Guest Editor

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