# **Special Issue**

# Plant Natural Product: Extraction, Separation, Purification, Essential Oils and Functional Product Development

## Message from the Guest Editors

The importance of natural products is increasing day by day due to its prominent contribution to pharmacotherapy, in particular for cancer, diabetic, and other infectious diseases. However, the extraction methods and methods of application might affect the efficacy of natural-based extracts and essential oils. This Special Issue covers multidisciplinary topics, including the characterization of bioactive compounds, their synthetic modification, and extraction of essential oils from aromatic and medicinal plants. Moreover, this Special Issue is intended to present and discuss high quality original research articles, or review articles focused on new, novel and known active secondary metabolites. Potential topics include, but are not limited to:

- Isolation, purification, and characterization of secondary metabolites;
- Synthetic modification of natural products with potential pharmaceutical activities;
- Essential oils with different bioassays;
- In vitro and in vivo analysis:
- Medicinal plants and their extracts with pharmacological activities;
- Molecular docking and in silico studies.

### **Guest Editors**

Dr. Najeeb Ur Rehman

Dr. Riaz Ullah

Dr. Ajmal Khan

### Deadline for manuscript submissions

closed (30 September 2023)



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## **About the Journal**

### Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

#### Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

