Special Issue

Innovations in Heterocyclic Chemistry: Synthesis, Characterization and Bioactivity

Message from the Guest Editors

Heterocyclic compounds are a cornerstone of modern chemistry and play a pivotal role in drug discovery. Their unique structural diversity and reactivity make them invaluable scaffolds for designing novel compounds with various biological properties. For this Special Issue, titled "Innovations in Heterocyclic Chemistry: Synthesis, Characterization and Bioactivity", we welcome original research articles, comprehensive reviews, and short communications that explore the following topics:

- Innovative synthetic methodologies: Development of sustainable, efficient, and selective approaches for constructing heterocycles.
- Structural characterization: Advanced analytical techniques to elucidate the structure, stability, and properties of heterocyclic frameworks.
- Bioactivity evaluation and biochromatography: Studies on the biological potential of heterocycles, including antimicrobial, anticancer, antiviral, anti-inflammatory, and other pharmacological activities.
- Computational insights: In silico approaches to understanding reactivity, stability, and structure-activity relationships of heterocyclic compounds.
- Applications: Emerging uses of heterocycles in medicinal chemistry.

Guest Editors

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Deadline for manuscript submissions

30 September 2025

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/224860

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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