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Heterocyclic Building Blocks for Medicinal Applications

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Message from the Guest Editors

In the twenty-first century, an extremely high percentage of all drugs used in therapy contain at least one heterocyclic structure, with heterocyclic compounds being a very large and varied family of molecular fragments used by chemists for organic synthesis. This is not only due to their structural diversity and chemical properties but also because their heterocyclic nuclei are constituents of natural products and play a key role in biological processes. High-quality heterocyclic building blocks are crucial to the biological activities of different molecules and ADMET properties, which eventually impact the success rate of drug discovery projects.

This Special Issue in *Molecules* aims to familiarize readers with the most modern trends in the field of heterocyclic building blocks with or for medicinal applications. We encourage authors to submit original research articles, review papers, and short communications regarding the design and synthesis of new heterocyclic structures starting from synthetic compounds or from isolated natural compounds, in which the final goal is to obtain compounds with various biological actions or to optimize existing biological properties.



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Special Issue



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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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