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Heterocyclic Compounds in Medicinal Chemistry

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Message from the Guest Editors

Heterocycles play a key role in the biological activity of many small molecule drugs due to their capability of forming hydrogen bond, altering the polarity and modulating lipophilicity at specific sites in the pathogen or host with the overall effect of inhibiting the biological processes that lead to the progression of diseases. Indeed, most of the organic compounds used as therapeutics or intermediates utilized for their synthesis contain heterocyclic motifs that can improve pharmacological, pharmacokinetic, toxicological and physicochemical properties of compounds, making them more effective as therapeutic agents. Heterocycles endowed with any biological action. The aim of the present Special Issue is Heterocycle is a ring with at least one atom that is not carbon. Nitrogen, oxygen, and sulfur are the primary elements seen in common heterocycles, which play a critical role in drug discovery.

This Special Issue will acknowledge research papers with topics including, but not limited to, the preparation of aromatic and non-aromatic also an overview primarily of the state of the art of synthetic methods and recent advances in the synthesis of heterocycles.



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Special Issue



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