



The 20th Anniversary of *Pharmaceuticals*—Heterocyclic Compounds and Their Application in Therapy

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Message from the Guest Editors

Dear Colleagues,

Heterocycles are present in numerous organic compounds of interest in biology, pharmacology, and medicine. Heterocycles exhibit unique structures, leading to several applications in the design of drugs. The presence of heteroatoms (e.g., N, S, and O) in the cyclic molecular structures results in significant physicochemical properties. Hydrogen bond donors and acceptors in these rigid frameworks allow hydrogen bond interactions with receptors and/or target enzymes, enhancing binding affinity and improving therapeutic potency. Heterocycles can also be involved in the design of prodrugs and modulate the lipophilicity of bioactive molecules, thus varying their pharmacokinetic and pharmaceutical properties. This Special Issue aims to review recent developments in the design, synthesis, and pharmaceutical properties of natural products as well as synthetic compounds containing aromatic heterocyclic systems.





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Message from the Editor-in-Chief

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