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Novel Imidazole Derivatives in Medicinal Chemistry

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Message from the Guest Editors

Dear Colleagues,

Current concepts related to searching for new bioactive products, mainly including original active substances with potential application in pharmacy and medicine, are based on compounds with a previously determined structure, well-known properties and biological activity profile. Compounds containing the imidazole moiety exhibit a wide range of biological activities. The imidazole skeleton is present in various natural compounds, such as histidine, histamine and pilocarpine alkaloids, and synthetic bioactive compounds, including cimetidine, losartan, fungicides or herbicides. These azoles show a broad spectrum of biological activities, such as anticancer, antifungal, antiviral, antibacterial, antitubercular, antiparasitic, antihistaminic, anti-inflammatory and antineuropathic.

We invite researchers to publish their findings on the synthesis and biological applications of imidazole derivatives. This Special Issue aims to summarize the state of the art and the latest findings published in the imidazole field, as well as elucidate the future directions of these compounds in medicinal chemistry.

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