

Special Issue

Organic Synthesis and Medicinal Chemistry, Two Inseparable Partners: Recent Advances in Heterocyclic Chemistry, 2nd Edition

Message from the Guest Editor

The development of novel synthetic bioactive compounds has always been an important aspect in medicinal chemistry research. In this sense, organic synthesis plays a central role, being therefore an inseparable partner of any drug discovery process. Among the plethora of organic molecules, synthetic aliphatic and aromatic heterocycles attract attention because of their extraordinary ability to mimic endogenous structures including, e.g., enzyme substrates, neurotransmitters, antioxidants, and alkaloids. Thus, the heterocyclic chemical knowledge has significantly improved and led to more sustainable, diverse strategies, e.g., flow chemistry, mechanochemistry, and photochemistry have been applied to the synthesis of multipurpose compounds with high molecular diversity. Consequently, the development of novel synthetic strategies and the design of heterocycles with alternative modes of action is continuously warranted. We welcome contributions centered on the application of organic chemistry strategies to the synthesis of drug-like heterocycles. Papers focusing on in silico drug design or on the synthesis and biological activity of new heterocyclic derivatives will be also considered.

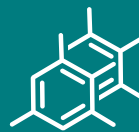
Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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