

Special Issue

Advances in Medicinal Chemistry for Age-Related Diseases

Message from the Guest Editor

Age-related diseases represent a growing global health concern as life expectancy increases worldwide. Conditions such as Alzheimer's disease, Parkinson's disease, cardiovascular disorders, type 2 diabetes, osteoporosis, and certain cancers are closely related to the aging process and often share common molecular and cellular pathways, including oxidative stress, inflammation, and mitochondrial dysfunction. Medicinal chemistry plays a pivotal role in identifying, designing, and optimizing small molecules and other therapeutic agents to target these complex mechanisms.

This Special Issue aims to highlight recent advances in medicinal chemistry that address the challenges of treating these complex diseases. Contributions may include the discovery of novel bioactive molecules, structure–activity relationship studies, the development of multitarget-directed ligands, novel strategies for improving drug selectivity and bioavailability, and insights from computational approaches.

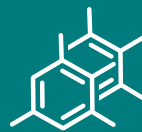
Guest Editor

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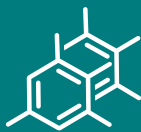


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Message from the Editor-in-Chief

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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