Special Issue

Metalloenzyme Inhibitors and Activators II

Message from the Guest Editor

Metalloenzymes represent a target of medicinal chemistry that have been extensively investigated in the last several decades. Since they are responsible for the regulation of a wide range of physiological processes, they are also involved in the development of many pathological conditions, including cancer, inflammation, microbial infections, and HIV/AIDS. Recent studies involving the resolution of enzyme crystal structures, site-directed mutagenesis of catalytic residues, and molecular modeling of catalytic domains have opened the way to the synthesis of more selective agents.

This Special Issue aims to collect the recent advances in the inhibition of metalloenzymes such as carbonic anhydrases, matrix metalloproteinases (MMPs), ADAMs (A Disintegrin-like And Metalloproteinases), ADAMTSs (ADAM with Thrombospondin-like motifs), histone deacetylases (HDACs), angiotensin-converting enzyme (ACE), and HIV-1 integrase, among others. Particularly welcome are studies involving the development of small molecules but also exosite inhibitors, glycoconjugates, as well as protein–protein interaction (PPI) inhibitors.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2021)

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/53048

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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