

Special Issue

Metalloenzyme Modulators and Enzyme Mimics: Synthesis and Applications

Message from the Guest Editors

This Special Issue addresses our understanding of different modulations of metalloenzymes and enzyme mimics in order to better understand the mechanism behind them. About one-third of all enzymes known so far are metalloenzymes, and all major six enzyme classes established by the International Union of Biochemistry, i.e., oxidoreductases, transferases, hydrolases, lyases, isomerases, and ligases, are important members among metalloenzymes, with many different functions in cells. For this reason, they are considered as important drug targets for the treatment of major human diseases. Additionally, over the last few years, we have seen important achievements regarding molecules and their ability to act as mimetics of enzymes, that is, their ability to imitate the function of natural enzymes, thus understanding their active site structure and function. This Special Issue of *Molecules* welcomes contributions dealing with all aspects of metalloenzymes and enzyme mimics research, including drug design, inhibitors, activators, structure–function relationship, etc.

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th 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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