Special Issue

New Amine Oxidase Inhibitors and Enzymes in Oxidative Stress-Related Pathologies

Message from the Guest Editors

Amine oxidases (AOs) are a heterogeneous group of enzymes that catalyze the oxidative deamination of biogenic and exogenous amines to generate biologically active reaction products, such as aldehydes, ammonia and hydrogen peroxide, which may in turn influence cells and tissues. The aim of this Special Issue is to collate original research, clinical studies and review articles describing the current findings on the development of novel inhibitors of the different AOs in targeting various pathologies, and on novel correlations between amine oxidase activity and the various oxidative stress-related diseases. Specific topics of interest include but are not limited to the following:

- Novel inhibitors of AOs in relation to oxidative stress-related pathologies;
- New pharmacological approaches involving AOs as molecular targets;
- Novel physiological and pathological roles of spermine oxidase, MAOs, VAP-1 and other AOs (lysyl oxidase, LSD-1, diamine oxidase, ...)
- Relationships between oxidative stress and amine oxidase activity under healthy and disease conditions.

Guest Editors

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Message from the Editor-in-Chief

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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