Special Issue

Modeling Enzyme Action—A Themed Honorary Issue to Prof. Fredric M. Menger

Message from the Guest Editor

Molecules is pleased to announce a Special Issue dedicated to Fredric M. Menger, an emeritus professor of chemistry at Emory University, to celebrate his outstanding contribution to the synthesis and examination of organic systems and materials with biological importance. The striking efficiency of enzyme catalysis has motivated several organic chemists to unravel enzyme mechanisms by exploring certain intra-molecular reactions. The rate constants for a large majority of enzymatic reactions exceed their non-enzymatic bimolecular counterparts by 1010 to 1018 fold. It is believed that in all enzymatic reactions, binding energy is used to overcome prominent physical and thermodynamic factors that create barriers for the reaction (ΔG). Both, enzymes and intra-molecular processes are similar in that the reacting centers are held together (covalently with intra molecular systems, and non-covalently with enzymes). In this Special Issue "Modeling Enzyme Action—A Themed Honorary Issue to Prof. Fredric M. Menger", the various strategies employed in modeling enzyme action will be reported. Both reviews and original research contributions will be accepted.

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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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