Special Issue

Cyclodextrin Chemistry and Toxicology III

Message from the Guest Editors

Cyclodextrins (CDs) are cyclic, water-soluble oligosaccharides composed of six (⍺-CD), seven (⍺-CD), or eight (⍺-CD) D(+)-glucose units linked by ⍺-1,4 bonds. Obtained from starch, CDs are considered natural molecules. Their typical toroidal-like structure consists of an apolar internal cavity and a polar external surface, enabling physical inclusions of a wide range of active molecules especially with aromatic rings. As a result of their characteristics, CDs have numerous applications in several fields: biotechnologies, green chemistry, cosmetic formulations/fragrance stabilization, analytical chemistry, drug delivery, pharmaceutical excipients. In fact, today, there are already numerous food products, and pharmaceutical formulations on the market containing natural CDs. To further increase the benefits of these molecules, they can undergo chemical modifications producing synthetic CDs derivatives. This Special Issue aims to explore the new advancements regarding the use of cyclodextrins and their molecular complexes to evaluate their potential role in multiple applications.

Guest Editors

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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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