Special Issue

Design, Synthesis and Evaluation of Small Molecule Drugs

Message from the Guest Editors

Small molecule drugs have been the mainstay of the pharmaceutical industry for nearly a century. Defined as any organic compound with a low molecular weight, small molecule drugs have some distinct advantages as therapeutics: most can be administered orally, and they can pass through cell membranes to reach intracellular targets. They can also be designed to engage biological targets by various modes of action and their distribution can further be tailored, for example, to allow for systemic exposure with or without brain penetration. The rapid advancement of biopharmaceutical research and technology opens up possibilities for innovative and creative new approaches to developing small molecule drugs. Based on these considerations, this Special Issue aims to provide a platform for original research papers, short communications, and review articles on the latest advances in small molecule drugs. These papers may cover multidisciplinary aspects (such as drug design, synthesis, and pharmacological evaluation) of novel small molecule drugs with potential therapeutic innovations.

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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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