Special Issue

Small-Molecule Modulators Targeting Emerging Therapeutic Pathways: Design, Synthesis and Biological Evaluation

Message from the Guest Editor

In the post-genomic era, the therapeutic modalities of human diseases have evolved dramatically. Small-molecule modulators used to be the standard option for defined therapeutic pathways; however, antibodies, nucleotide-based drugs, and cell-based therapies are attracting increasing amounts of attention. Many novel therapeutic targets are emerging driven by advancements in biologic and clinical research, providing new opportunities for small-molecule modulators. In addition, specific cellular protein(s) can now be selectively degraded in the presence of rationally designed PROTACs and/or molecular glues, while small-molecule modulators of human immunity also show great therapeutic promises in human clinical trials. Notwithstanding, small-molecule modulators of enzymes are still a fruitful area of research delivering numerous marketed drugs. In view of the dynamic evolution of small-molecule modulators targeting emerging therapeutic pathways, this Special Issue welcomes original research concerning their design, synthesis and biological evaluation.

Guest Editor

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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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