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New Drugs Acting on Ubiquitin-Proteasome System

Guest Editor:

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Message from the Guest Editor

UPS comprises a group of enzymes such as E1 (ubiquitin-activating enzymes), E2 (ubiquitin-conjugating enzymes), and E3 (ubiquitin–protein ligases) that tag proteins with the small-molecule ubiquitin (Ub), and the multi-subunit proteolytic complex, the 26S proteasome, a highly specific molecular device that degrades Ub-tagged substrate proteins into small molecular peptides involved in other biological functions. Deubiquitinases (DUBs) regulate biological processes associated with cell proliferation and apoptosis and are components of the UPS that catalyze the removal of ubiquitin moieties from target proteins or polyubiquitin chains, resulting in altered signaling or changes in protein stability. Ubiquitin-specific proteases (USPs) are the largest subfamily of DUBs. This Special Issue aims to provide an opportunity to share new findings and recent advances in UPS-targeted small molecules toward the development of new anticancer drugs.

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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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