Special Issue

Combating Cancer Stemness and Drug Resistance with Natural-Product Derived Lead Structures

Message from the Guest Editors

Tumor development encompasses a complex interplay of abnormal cell proliferation and differentiation and a high degree of cellular heterogeneity and epithelial—mesenchymal transition (EMT). To date, targeted drug therapy and chemotherapy are the main pharmaceutical treatment options. Thus, the concept of elimination or "re-sensitization" of resistant cells within the heterogenous tumor cell population with natural compounds or synthetic derivatives to increase chemotherapy success rates by combating drug resistance and cancer stemness is promising.

This Special Issue of Molecules on "Combating Cancer Stemness and Drug Resistance with Natural-Product-Derived Lead Structures" will include articles and reviews focused on the most recent advances in the identification and pharmacological characterization of natural products or novel synthetic lead structures to target drug-resistant cancer cells and resistance-promoting tumor-associated cells within the tumor microenvironment or cancer stem cells.

Guest Editors

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As the premier open access journal dedicated to molecular chemistry, now in its 29th 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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