Special Issue

Exploration of Homocysteine Metabolism in Cancer and Petechial Therapeutic Targets

Message from the Guest Editors

One-carbon metabolism via the methionine cycle is essential during nucleotide synthesis, methylation, and reductive metabolism, and this pathway supports the high proliferative rate of cancer cells. Cancer cells require a constant supply of methionine from external sources (also known as the Hoffman effect), suggesting that possibly cancer cells need increased demand for metabolites derived from the one-carbon metabolism pathway. To understand this fact, we need to decode the metabolites that are generated from this one-carbon metabolism cycle. We invite researchers to contribute to this Special Issue who are working on the generation and usage of one-carbon units in cancer. Original research articles or review articles on the innovative aspect of the exploration of possible future therapeutics that could exploit the dependency of cancer cells on one-carbon metabolism are welcome.

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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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