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Synthesis of Compounds with Cytotoxic Activity

Guest Editor:

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Deadline for manuscript submissions:
closed (20 May 2021)

Message from the Guest Editor

Cancer is one of the leading causes of mortality worldwide, and the limited success of currently used anticancer drugs is a driving force for the search of new compounds with anticancer potential. A great number of such compounds are being synthesized in laboratories all over the world. The main challenge is to find a relatively simple, efficient, and generally synthetic method which enables preparation of libraries of compounds containing one or more pharmacophoric groups (hybrid molecules) with hope for new, effective anticancer agents. In addition, great attention is given to the diastereo- and enantioselective synthesis of these compounds.

This Special Issue is devoted to all aspects of synthetic methodologies which enable preparation of compounds with known or potential cytotoxic activity, including new synthetic protocols and improvement of the existing ones, as well as catalytic or multicomponent syntheses. Further, evaluation of the cytotoxicity of novel compounds, their structure–activity relationship, and molecular mechanisms of action is welcomed.

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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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