Special Issue

Application of Organic Synthesis to Bioactive Compounds

Message from the Guest Editors

Nature achieved a variety of chemical compounds that have extraordinary structural diversity and functional value. Humans have realized that these compounds could be useful for the treatment of illnesses. But the quantities available in nature are not enough for the treatment or biological testing. It is necessary to obtain them by other procedures. An easy approach is the structural manipulation of other natural products to produce a similar functionalization to the bioactive compounds, which is known as hemi- or semi-synthesis. Other approaches include total synthesis. Recently there are a variety of methodologies directed at achieving bioactive compounds, such as diversity-oriented synthesis, target-oriented synthesis, biologically-oriented synthesis, and function-oriented synthesis, among others.

The Special Issue “Application of Organic Synthesis to Bioactive Compounds” aims to present the most recent achievements in the organic synthesis not only of natural products, but also the synthesis of active compounds not present in nature. The manuscripts together with review papers will summarize the “state of the art” of the synthesis of bioactive compounds.

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As the premier open access journal dedicated to molecular chemistry, now in its 30th 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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