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Discovery, Synthesis and Evaluation of Bioactive Compounds

Guest Editors:

Prof. Dr. Constantinos Athanassopoulos
Department of Chemistry, University of Patras, GR-26504 Rion, Patras, Greece

Prof. Dr. Carlo Siciliano
Department of Pharmacy, Health and Nutritional Sciences, University of Calabria, I-87036 Arcavacata di Rende, Italy

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Message from the Guest Editors

Many useful drugs, biosensors, and medical applications of organic compounds result from broad collaboration between synthetic chemists and biologists. Organic synthesis has a primary role in new drug discovery, as well as the design, realization, and characterization of bioactive low-molecular-weight compounds. At present, a plethora of synthetic strategies help organic chemists in collecting a large number of molecules, often having templates directly inspired by nature. As a consequence, the development of new methods that can be applied in preparing new and powerful bioactive compounds is a fundamental need in translational research projects.

In this Special Issue, we focus on the most recent research efforts, towards the discovery of lead compounds and the development of drug candidates for successful therapies against major and severe contemporary diseases. Special attention will be given to interdisciplinary studies on novel therapeutic agents (anticancer, antiviral, antibacterial, antiparasitic, antidiabetic, etc.), having specific receptors, enzymes, or cellular pathways as targets.

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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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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Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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