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Drug Discovery from Microorganisms

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Message from the Guest Editors

Natural products (NPs) biosynthesized by microorganisms are prominent source of compounds with pharmacological values, thus established as the best starting point in the drug discovery process. Generally these compounds are biosynthesized in microorganisms through versatile metabolic pathways. They are often termed as “secondary metabolites” (SM) as they are synthesized like primary metabolites by producer organisms but may not be essential for their own metabolic processes. These SM or their derivatives are most frequently utilized as “drug leads” for the treatment of different disease conditions. Different biological approaches such as the utilization of synthetic biology tools and metabolic engineering techniques. This Special Issue aims to include research or review papers focused on key aspects of drug discovery from micro-organisms, including the isolation and characterization of novel structures, the study of biosynthetic mechansims, or the assessment of the biological activities of diverse microbe-derived molecules.

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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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