Special Issue

Synthesis of Natural Products Using Engineered Plants and Microorganisms

Message from the Guest Editors

Plants and microorganisms, especially medicinal herbs, harbor diverse natural products. Among them, many are bioactive molecules, which have potential pharmaceutical or health applications. However, the compositions of these bioactive molecules in plants or microorganisms are usually low. The development of omics technologies and synthetic biology provide opportunities to produce bioactive molecules using metabolically engineered plants or microorganisms. Artemisinin, rare ginsenosides, and several other natural products have been produced on a large-scale. To further apply natural products, using cutting-edge synthetic biology and engineering biology technologies in plants and microorganisms is of great interest.

Guest Editors

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As the premier open access journal dedicated to molecular chemistry, now in its 29th 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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