

Special Issue

Synthesis of Natural Products Using Engineered Plants and Microorganisms, 2nd Edition

Message from the Guest Editors

Plants and microorganisms, particularly medicinal herbs, harbor diverse natural products, many of which are bioactive molecules with potential pharmaceutical or health benefits. However, the compositions of these bioactive molecules in their original sources 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 various other natural products have been successfully scaled up for potential use as drugs or functional foods. There is a growing interest in further harnessing cutting-edge synthetic biology technologies to expand the utilization of these natural products via engineering both plants and microorganisms.

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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