Special Issue

Bio-Based Chemicals Biosynthesis and Metabolic Regulation

Message from the Guest Editors

Microbial processes are capable of converting renewable resources into chemicals of industrial interest. Maximization of the carbon yield from the substrates to the target product is difficult to achieve due to the competition or conflict between cell growth and bioproduction. Metabolic reprogramming has been pursued by taking advantage of metabolic engineering and biotechnologies to overcome the metabolic bottleneck in product synthesis for the improvement of production. In this Special Issue, we hope to provide an extensive exploration of microorganism and biotechnology for bio-based chemical biosynthesis. The scopes of this Special Issue include the construction of microbial cell factories for product or recombinant protein production, biological transformation of industrial interest, new genome editing methods or dynamic regulation systems and other aspects of genetic transformation for strain improvement. We aim to publish papers in this Special Issue that represent important advances of significance to specialists within industrial microorganism and biotechnology fields.

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