Special Issue

Advanced Biotechnologies for Sustainable Production of Value-Added Products from Waste Streams

Message from the Guest Editors

Biorefinery emerges as an enabling technology to mitigate climate change by reducing our dependence on fossils fuels. Continued improvement of biological processes can minimize the production of waste and facilitate efficient reuse of waste materials other than biomass. Moreover, the implementation of a cascading production scheme is plausible to increase the economic viability of biorefinery. This strategy integrates a network of manufacturing processes for the production of value-added products such as enzymes, proteins, chemicals, and antibiotics, followed by production of biofuels. This Special Issue focuses on the recent development in advanced biotechnologies for efficient production of value-added products from waste streams, including food waste, agricultural waste, fishery waste, industrial waste, biomass-derived waste (e.g. protein waste), and others. The special emphasis is given to the exploration of native and genetically-modified microbes for serving as the manufacturing factory.

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Editor-in-Chief

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