Special Issue

Biocatalytic Process Optimization

Message from the Guest Editors

Biocatalysis is very appealing to industry because it allows, in principle, the synthesis of products not accessible by chemical synthesis. Enzymes are very effective and precise biocatalysts as they are enantioselective, with mild reaction conditions and green chemistry. Biocatalysis is currently widely used in the pharmaceutical industry, food industry, cosmetic industry, and textile industry. This includes enzyme production, biocatalytic process development, biotransformation, enzyme engineering, immobilization, and recycling of biocatalysts. One of the most challenging problems in biocatalysis applications is process optimization. Experimental design combined with response surface methodology or artificial neural network are powerful tools for process optimization. This Special Issue aims to cover recent progress and advances in the field of biocatalysis optimization using any methods, such as experimental design, response surface methodology or artificial neural networks. Other methodologies, even as one-factor-at-a-time experiments for optimization related to biocatalysis, are also welcome.

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