Special Issue

Biotechnological Applications of Yeasts

Message from the Guest Editors

A Special Issue on “Biotechnological applications of Yeasts” is being prepared for the journal *Microorganisms*. Yeasts are widely used for the production of food and beverages, pharmaceutical biosynthesis, industrial production of biochemicals. Recently, metabolic engineering, synthetic biology, and systems biology have enabled yeasts to produce diverse and novel biochemicals. Thus, developing novel effective yeast tools and understanding yeast metabolisms are essential for the biotechnological applications of yeasts, which will accelerate the commercial productions of value-added bioactive compounds. In addition to novel studies on the biotechnological applications of yeasts, cutting-edge studies on yeast metabolic engineering, systems biology, and synthetic biology are of great interest in this Special Issue.

- Production of natural and bioactive compounds by yeasts;
- Production of non-native chemicals by yeasts;
- Yeast metabolic engineering;
- Application of systems biology and synthetic biology in yeast biotechnology;
- Genome-scale models of yeasts;
- Novel yeast genome editing tool development;
- Yeast omics data application in yeast biotechnology.

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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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