Special Issue

Yeasts as Microbial Cell Factories: Diversity, Biotechnology Potential and Applications

Message from the Guest Editor

Yeasts are metabolically versatile microorganisms that are of great relevance for industrial biotechnology and. beyond their traditional roles in food and beverage fermentation, both conventional and non-conventional veasts are increasingly recognized as efficient microbial cell factories for the production of high-value compounds such as lipids, carotenoids, enzymes, organic acids, and bioethanol. This Special Issue aims to highlight recent advances in yeast biodiversity, functional properties, metabolic engineering, and bioprocess optimization, and topics of interest include the discovery of novel yeast species, the probiotic potential of yeasts, their interactions in co-cultivation systems, their applications in food and health sectors, and the sustainable biotechnological use of industrial residues. Both original research and review articles are welcome.

Keywords: yeast biodiversity; non-conventional yeasts; fermentation; functional metabolites; food biotechnology; microbial waste valorization; bioprocess optimization

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