Special Issue

Microbial Biotechnology: State-of-the-Art Research in USA

Message from the Guest Editor

This Special Issue, “Microbial Biotechnology: State-of-the-Art Research in USA”, aims to highlight recent breakthroughs and innovative strategies developed by U.S.-based research groups. Special emphasis will be given to advances in microalgae biotechnology, including their role in renewable energy production, carbon capture, bioremediation, nutraceuticals, and other high-value bioproducts. We welcome contributions on the microbial production of biofuels, bioplastics, pharmaceuticals, and sustainable agricultural inputs, as well as studies on microbial interactions, novel bioprocesses, and the integration of artificial intelligence, nanotechnology, and advanced bioreactor design. This Special Issue provides an updated overview of the current landscape and future directions of microbial biotechnology in the United States, showcasing leading-edge advances with a particular focus on microalgae as a cornerstone for a sustainable bioeconomy.

Guest Editor

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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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