

Special Issue

Microbial Lipids: Novel Advances and Applications

Message from the Guest Editors

During recent decades, microbial lipids (also referred to as single cell oils, microbial oils or bio-oils) have been under the spotlight since they have applications in several domains.

Aimed at improving the knowledge of lipids production by oleaginous microbial species (filamentous fungi, yeasts, microalgae and bacteria), this Special Issue aims to provide an up-to-date collection of significant papers, presenting the most relevant advances in this field. Researchers are invited to submit work focusing on cultivation conditions (medium composition, operational conditions, mode of operation, etc.), utilization of cheap waste materials as substrate, adaptive evolution strategies, random mutagenesis and genetically engineered strains for enhancing lipids production and for biosynthesis of specialty lipids with high added-value. Discussion on topics such as new methods for lipids quantification, cells disruption and oils extraction, modeling or kinetics of lipids profile and applications of microbial lipids are also encouraged.

Guest Editors

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Deadline for manuscript submissions

closed (20 April 2023)



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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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