

Special Issue on
Microbial Lipids: Production and Applications

CALL FOR PAPERS

From centuries, humans are exploiting microorganisms for various products such as antibiotics, vitamins, and enzymes. Recently, there has been a growing interest in microbial lipids due to their wide spectrum of applications in different fields such as pharmaceuticals, cosmetics, nutraceuticals, environment, and biofuels. Rhamnolipids, sophorolipids, polyunsaturated fatty acids (PUFA), γ -linolenic acid, poly- β -hydroxyalkanoates, algal oils, and triacylglycerol are some of the examples of high value microbial lipids. The global market of microbial lipids is growing rapidly due to their huge demand as well as environmental awareness.

A wide variety of microorganisms from different genera including bacteria and fungi including yeast, phytoplankton, and algae produce and accumulate industrially important fatty acids and lipids. However, potential of lipid producing microorganisms is mainly assessed by two major factors (i.e., yield of microbial lipids and ability of microorganism to grow on renewable low-cost substrates). Isolation of high lipid accumulating microorganism and exploring the utilization of renewable substrates are the key of recent researches on microbial lipids.

The purpose of this special issue is to highlight the new developments in the production process and applications of microbial lipids. We cordially invite researchers from across the globe to contribute the original high-quality research papers addressing the recent advances on the production of microbial lipids from renewable and waste materials, isolation of industrially important lipid producing novel microbial strains, optimization of process parameters for enhanced production of microbial lipids, and novel applications of microbial lipids.

We invite contributions to submit original research papers as well as review articles on the abovementioned microbial lipids. Please have a look at the authors' guidelines of the Journal of Lipids for other terms and conditions and detailed instructions for manuscript preparation.

Potential topics include but are not limited to the following:

- ▶ Biosurfactants: rhamnolipids, sophorolipids, lipopeptides, and mannosylerythritol lipids
- ▶ Algal oil for biodiesel and other biofuels
- ▶ Single cell oils
- ▶ Poly- β -hydroxyalkanoates
- ▶ Nutraceuticals and food additives: PUFA, γ -linolenic acid, arachidonic acid, etc.

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jl/mili/>.

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First Round of Reviews

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