

## Special Issue

# The Industrial Feasibility of Biosurfactants

### Message from the Guest Editor

Biosurfactants are surface-active compounds produced by microorganisms such as bacteria, yeast, and fungi. The choice of microorganism and medium composition, including carbon and nitrogen sources, influences the yield and properties of the biosurfactants produced. In the petroleum industry, they can be used for microbial-enhanced oil recovery and the bioremediation of oil spills. In the food industry, they can be used as emulsifying agents, stabilizing blends of water and oil in products such as sauces and dressings. Biosurfactants are also valuable in the cosmetic and pharmaceutical industries, where they function as emulsifiers, foaming agents, and wetting agents in formulations such as creams, lotions, and shampoos. Additionally, in the agricultural sector, they are utilized for biocontrol against plant pathogens and in eco-friendly pesticide formulations. The versatility and sustainability of biosurfactants continue to drive research and innovation in their production and application. Therefore, this Special Issue is focused on, but not limited to, the production of biosurfactants, including yields, purification, culture medium composition, scale-up, etc.

### Guest Editor

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## Fermentation

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### Editor-in-Chief

Dr. Badal C. Saha  
Retired, National Center for Agricultural Utilization Research, USDA-  
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