

Special Issue

Lanthanide-Dependent Methylotrophy and Methylotrophs

Message from the Guest Editor

Methylobacterium (including *Methylobacterium*) species are Gram-negative, aerobic, and facultative methylotrophs that belong to the *Methylobacteriaceae* family of the order Rhizobiales. So far, 61 species are known, and they have been isolated from many different environmental niches, which are represented by plants, soil, air, aquatic, and even human living environments. As a representative model methylotroph, *Methylobacterium extorquens* strain AM1 has been intensively studied for its methylotrophy. Recent findings on the lanthanide dependency of its important enzyme for methylotrophy, XoxF-type methanol dehydrogenase, have indicated the unexpected role of lanthanides in biology. Besides, many isolates of the genera have also been reported as plant-growth-promoting bacteria, as well as pink biofilms in kitchen and bathrooms. The aim of this Special Issue is to contribute knowledge on the methylotrophy, physiology, and environment-adaptability of the genera *Methylobacterium* and *Methylobacterium*.

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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