



Aerobic Methane Synthesis Bacteria

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Message from the Guest Editor

Aerobic methane synthesis bacteria are microorganisms that have the ability to produce methane in the presence of oxygen. Studies of bacteria from a wide spectrum of genera and species have revealed that multiple enzymes have the ability to produce methane in aerobic conditions. Particularly, this process is typically associated with specific groups of bacteria called methanotrophs. Methanotrophic bacteria have garnered significant research interest due to their potential applications in fields such as biogas production, wastewater treatment, and environmental sustainability.





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