

Marine Endophytic Bacteria-prospects and Applications [†]

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Abstract: Marine endophytic bacteria are commonly found in the inner tissues of the host halophytic plants. They often live in a mutualistic association with their host, mostly forming beneficial interactions without affecting the host systems. These endophytic bacterial systems and their interactions are mostly unexplored due to limited research. Endophytic bacteria contain many beneficial metabolites and cellulosic compounds that can be harnessed for commercial use. Culture-based and non-culture-based methods for studying the dynamic relationship between marine endophytic bacteria and the host have been discussed and compared. The various interactions and applications of marine endophytic bacteria in medicine, biology, and agriculture are also discussed.

Keywords: marine endophytic bacteria; metabolites; commercial use.

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Conflicts of Interest

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