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[Siderophores: Structure and Function of Microbial Iron ...](#)

INTRODUCTION: Siderophores (from the Greek: iron carriers) are defined as relatively low molecular weight, ferric ion specific chelating agents elaborated by bacteria and fungi growing under low iron stress.

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The importance of microbial siderophores extends beyond their immediate role in microbial physiology and their role in biotechnology. Applications of microbial siderophores for sustainability of humans, animals, plants and environment is enormous. Siderophores have potential ability to resolve various environmental problems like heavy metal

[Siderophore - Wikipedia](#)

Siderophores usually form a stable, hexadentate, octahedral complex preferentially with Fe 3+ compared to other naturally occurring abundant metal ions, although if there are fewer than six donor atoms water can also coordinate.

[Siderophore production by mycorrhizal sorghum roots under ...](#)

siderophores in root leachates on 45, 65 and 85 days after sowing (DAS). Siderophore production per unit volume of root was higher in mycorrhizal than non-mycorrhizal plants.

[Microbial siderophores and their potential applications: a ...](#)

REVIEWARTICLE Microbial siderophores and their potential applications: a review Manmita Saha & Subhasis Sarkar & Biplob Sarkar & Bipin Kumar Sharma & Surajit Bhattacharjee & Prosun Tribedi

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Iron is one of the major limiting factors and essential nutrients of microbial life. Since in nature it is not readily available in the preferred form, microorganisms produce small high affinity

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Dhara Malavia, Duncan Wilson, in Advances in Microbial Physiology, 2017, 3.4 Siderophore-Mediated Iron Assimilation by *A. fumigatus*. Siderophores are high-affinity small molecule chelators which are produced by numerous microorganisms to sequester iron.

[Root-microbial effects on plant iron uptake from ...](#)

Root-microbial effects on plant iron uptake from siderophores and phytosiderophores DAVID E. CROWLEY 1, VOLKER ROMHELD 2, HORST MARSCHNER 2 and PAUL J. SZANISZLO 3

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Siderophores in environmental research: roles and ...
Microbial siderophores participate in the biodegradation of petroleum hydrocarbons through an indirect mechanism, by facilitating the Fe acquisition for the degraded microorganisms under Fe-limiting conditions (Barbeau et al., 2002).