

Class 0

Class 1

Control

abundant presence of vesicles in the root apoplasm of plants when cultured with Fe-pyoverdine than with Fe-EDTA. However pyoverdine immunogold labeling of root sections was not sensitive enough to allow the possible detection of pyoverdine in the vesicles. Altogether, these data confirm the acquisition of iron from Fe-pyoverdine by *A. thaliana* and suggest that iron incorporation from Fe-pyoverdine could be related to endocytosis. Further experimental proof is required to determine if the increase of vesicles in the presence of pyoverdine mediates that process.

References

Vansuyt G. et al., 2007. Iron acquisition from Fe-pyoverdine by Arabidopsis thaliana. Mol. Plant-Microbes Interact. 20:441-447.

Interfact. 20.441-447. Lemanceau P. et al., 2009. Iron dynamics in the rhizosphere as a case study for analysing interactions between soils, plants and microbes. Plant Soil. 321:513-535. Lemanceau P., et al. Role of Iron in Plant–Microbe Interactions. Advances in Botanical Research, in press.

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Class 2

Fe-EDTA

apoplasmic vesicles (AVs) were

classified into three classes and

percentage of cells exhibiting 1,

2-5 and >5 AVs per cell

Fe-pyoverdine

are expressed

in

results