



Symbiotic Interactions between Mycorrhizae and Root in Different Conditions of Nitrogen

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

As is well known, after carbon, nitrogen is the most important macronutrient for plant metabolism and is a key component of amino acids, which form the building blocks for plant proteins and enzymes. In this field, the cause of nutrient deficiency in a plant can occur when the rapid absorption of soil solutes occurs, there is low nutrient concentration, a low diffusion rate or low soil moisture. These conditions occur very frequently; in this way, most plants rely on mycorrhizal fungi to facilitate the absorption of minerals from soil. Mycorrhizae form symbiotic associations with the roots of plants, which allows them to integrate into the physical structure of the root through interesting biomolecular mechanisms. As is well known, some studies have shown that endomycorrhization not only captures mineral nutrients from the soil that are inaccessible to the plant, but in particular, with regard to nitrogen, endomycorrhization transfers it to the roots in an assimilable form, such as ammonium or even as amino acid.

Dr. Catello Di Martino

Guest Editor





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