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Use of arbuscular mycorrhizal fungi in medicinal and aromatic plants

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It is inevitable for people who are involved in agriculture to keep pace with the changing world and to follow the supply and demand indicators as well as to observe the input costs normally and to use the conventional chemical applications more carefully and correctly. Therefore, the importance of mycorrhizal applications which act environmental friendly, improve photosynthesis, constitute a reclaiming factor for soils subjected to aridity and heavy metal stresses and which are more economical than most applications, increases the resistance of plant to water stress by correct use of soil moisture and improves overall yields, as well as reduces the use of fertilizers by half has been better understood by scientists and farmers. One of the issues that need to be addressed in issues related to medicinal and aromatic plants to obtain the standard and quality products desired by the world market is to use Arbuscular Mycorrhizal Fungi (AMF), which is the largest group of mycorrhiza species, in the places where its breeding is done. Within the frame of the preliminary works carried out in this context, it has been noted that in medicinal and aromatic plants, AMFs have positive effects on water use and mineral matter intake as well as overall yield and quality parameters such as germination, biological yield, root yield, essential oil content and essential oil yield and contribute to dry matter accumulation. In studies carried out when these plants were thought to be leading especially in the pharmaceutical and medicinal sectors, the influence of the significant statistics on the essential oil components of AMFs should be considered in a broader perspective. In this review, general characteristics of mycorrhiza, mycorrhiza types, general characteristics of arbuscular mycorrhizal fungi and their use in medicinal and aromatic plants were examined.

Biography

Abdurrahim Yılmaz is a Research Assistant in Bolu Abant İzzet Baysal University, Turkey. His research interests mainly focus on determining the effectiveness of antimicrobial substances for essential oil. Currently he is working on his PhD thesis at the Faculty of Agriculture and Natural Sciences of Bolu Abant İzzet Baysal University.

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