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COMPARATIVE ECOLOGICAL STUDIES OF FOUR LALLEMANTIA (LAMIACEAE) SPECIES GROWING WILD IN IRAN

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Lallemantia Fisch & C.A.Mey, is a small genus belonging to Lamiaceae family. The gemus Lallemantia is distributed in Afghanistan, Iraq, Turky, Caucasia, Afghanistan, Pakistan and Europe. All species (L. royleana, L. iberica, L. peltata and L. canescens) grow naturally in Iran [1]. The only L, comescens is perenial. Several species (L). royleana and L. iberica) are used in folk medicine as antiseptics, astringents and spasmolytics [2]. Detail information on ecological properties of Lailemantia species has not been studied. Ecological investigation included altitudinal and soil properties (texture and pH) analysis of habitat. The results obtained from ecological studies are showing that L. camescens has been determined to grow in higher altitude (2400-3000) on sand soil with pH 6.9-7.1 and EC with 300-500 µs. L. politata is characterized by loamy sand habitat with 7.0-7.2 and EC 450-500 us in lower altitude than the L. canescens (Average 2400). L. iberica and L. royleana are growing on loam-sandy loam with more alkaline (7.7-7.8) and saline (700-900 µs) than the others. Finally, PCA analysis show that EC, Sand and Clay as First component and Altitude as Second components are main ecological factors that are responsible to Lallamantia habitat differentiation

References

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