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The phylogenetic relationships of species in *Dracocephalum* and *Lallemantia* based on molecular data

Mehrshid Riahi¹ - Asghar Kamrani²

1- Correspondences , Department of Plant Sciences, Faculty of Biological Sciences, Kharazmi University, Tehran, Iran

2-Department of Biology, Faculty of Basic Science, Shahed University, Tehran, Iran

Abstract

Dracocephalum and *Lallemantia*, two members of the tribe Mentheae subtribe Nepetinae (Lamiaceae, Nepetoideae), were analysed with respect to phylogenetic analysis. All species of the genus *Lallemantia* and four species of the genus *Dracocephalum* were investigated for nuclear (ITS) and plastid (*trnS/G*, *rpl32*, and *rpl32-trnL*) DNA sequence comparison. The results strongly suggested that *Lallemantia* is a separate genus from *Dracocephalum* with distinct morphological and phylogenetic characteristics. For intrageneric phylogeny of *Dracocephalum* and *Lallemantia*, 2 groups were recognised in each genus. Monophyly of each lineage supported by distinct morphological characters (e.g., structure of flower and pollen).

Keywords: *Dracocephalum* , ITS, *Lallemantia*, Lamiaceae, molecular phylogeny, Nepetinae.