

**The Contributions to Revision of *Gundelia* L. in Turkey**Metin ARMAĞAN<sup>1</sup>,<sup>1</sup>Medicinal and Aromatic Plants Program/ Buharkent Vocational School, Adnan Menderes University, Turkey

**Aim of the study:** The genus *Gundelia*, described by Linné, was thought to be monospecific for a long time. *Gundelia tournefortii* was typified by Vitek and Jarvis and the characters of this species have been defined by Vitek and his colleagues. *Gundelia glabra* Miller and *Gundelia rosea* M. Hossain et Al-Taey have been re-established and the species were defined as well. New species have been described nowadays from Armenia, Turkey, and Iran. It is aimed to determine whether the differences among *Gundelia* populations result from variations of either genetical or ecological factors.

**Material and Methods:** For the current study, the samples from each discovered *Gundelia* populations in different regions of Turkey are being taken. Leaf specimens taken for population genetic studies are dried in silica gel. During fieldworks, general photos representing characteristics of both habitat and plants are taken. Additionally, records of population and localities are kept. The samples dried between presses were stored in the Herbarium of Adnan Menderes University (AYDN) and the Herbarium of the Natural History Museum in Vienna (W).

**Results:** In Turkey, different taxa are spread through regions except Aegean, Marmara and Black Sea coasts. Nowadays, many researchers interest in *Gundelia* species. The reason behind this is that genus *Gundelia* has different variations on flower colour, the synflorescence compound flowers, habits, bracts and leaves size. So, description characters of *Gundelia* are defined again.

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**Keywords:** *Gundelia*, morphology, Turkey.