

**Chemotaxonomy study of some annual species of Astragalus based on flavonoids** (Poster)

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**Introduction**

Genus *Astragalus*, one of the largest genera of vascular plants, belongs to family Fabaceae and distributed throughout the world(1). Two important infrageneric classification of annual species of *Astragalus* by Bunge (1868) and Podlech (1999,1991) are controversial from the view point of species relationships and their position within sections(3).

**Objectives**

The aim of this research is detail study of chemical characters of annual species and comparing the obtained results with present classifications.

**Methods**

Flavonoids of some annual species of *Astragalus* were analyzed by two dimensional paper chromatography(2). Totally, 108 flavonoid compounds extracted from 20 species, sub species and varieties. Species similarity was investigated by UPGA method and Statistica software.

**Results**

The results show that: 1- Isolation of section *Bucerates* from other species is distinctive. 2- Section *Sesamei*, is considered as a heterogeneous section. 3- Similarity of flavonoids of *Ophiocarpus* Podlech with other species of genus *Astragalus* is confirmed.

**Conclusion**

This study almost confirms the Podlech's (1999) classification.

**Keywords:** Chemotaxonomy, Flavonoid, Annual *Astragalus*

**Selected References**

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