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REZA NADERI & ATEFE AMIRAHMADI (2026) Floristic diversity and new records of Fabaceae in Semnan Province, Iran: From the Eastern Alborz Mountains to the Central Plateau *Phytotaxa* 768 (1): 1–21.

After further review, the following revisions should be incorporated into the published article.

Presently reads

Abstract

This study investigates the floristic diversity of Fabaceae in Eastern Alborz (Semnan Province, Iran). A comprehensive floristic survey was conducted based on field collections and the identification of specimens housed in the herbarium of Damghan University (DU). A total of 143 species, representing 24 genera, were identified. Among these, six species, *Astragalus glycyphylloides*, *A. pseudocyclophyllus*, *Medicago rigidula*, *Ononis spinosa*, *Oxytropis kopetdaghensis*, and *Vicia villosa*, were newly recorded for the study area. *Astragalus*, comprising 87 species, was the most species-rich genus, followed by *Oxytropis* (8 species), *Vicia* and *Onobrychis* (6 species each), and *Trifolium* and *Medicago* (5 species each). Phytogeographical analysis revealed that approximately 76% of the species are Irano-Turanian elements. Regarding the life-form spectrum, hemipterophytes were dominant with 89 species (62.24%), followed by chamaephytes (32 species, 22.38%), while other life forms were less represented. Furthermore, 61 species were identified as endemic to Iran, of which 49 belong to the genus *Astragalus*, highlighting the major contribution of this genus in the regional flora. These results improve our knowledge of the diversity and distribution of Fabaceae in Eastern Alborz.

Should read

Abstract

This study investigates the floristic diversity of Fabaceae in Eastern Alborz (Semnan Province, Iran). A comprehensive floristic survey was conducted based on field collections and the identification of specimens housed in the herbarium of Damghan University (DU). A total of 178 species, representing 24 genera, were identified. Among these, six species, *Astragalus glycyphylloides*, *A. pseudocyclophyllus*, *Medicago rigidula*, *Ononis spinosa*, *Oxytropis kopetdaghensis*, and *Vicia villosa*, were newly recorded for the study area. *Astragalus*, comprising 108 species, was the most species-rich genus, followed by *Oxytropis* and *Vicia* (10 species each), *Onobrychis* (9 species), *Medicago* (7 species), and *Trifolium* (6 species). Phytogeographical analysis revealed that approximately 76% of the species are Irano-Turanian elements. Regarding the life-form spectrum, hemipterophytes were dominant with 115 species (64.61%), followed by chamaephytes (34 species, 18.54%), while other life forms were less represented. Furthermore, 74 species were identified as endemic to Iran, of which 58 belong to the genus *Astragalus*, highlighting the major contribution of this genus in the regional flora. These results improve our knowledge of the diversity and distribution of Fabaceae in Semnan Province.

In addition, the following 35 species should be added to Table 1 (Checklist of Fabaceae in Semnan Province):

Astragalus (sect. *Adiaspastus* Bunge) *ochrochlorus* Boiss. & Hohen.; *A.* (sect. *Alopecuroidei* DC.) *schahrudensis* Bunge; *A.* (sect. *Ankylotus* Bunge) *commixtus* Bunge; *A.* (sect. *Annulares* DC.) *crenatus* Schult.; *A.* (sect. *Astragalus* DC.) *basineri* Trautv.; *A.* (sect. *Astragalus* DC.) *turkestanus* Boiss.; *A.* (sect. *Bucerates* DC.) *hamosus* L.; *A.* (sect. *Caprini* DC.) *macropelmatus* Bunge; *A.* (sect. *Dissitiflora* DC.) *juratzkanus* Freyn & Sint.; *A.* (sect. *Dissitiflora* DC.) *ruscifolius* Boiss.; *A.* (sect. *Erioceras* Bunge) *nubicola* Podlech; *A.* (sect. *Incani* DC.) *demavendicus* Boiss. & Buhse;

A. (sect. Incani DC.) platysematus Bunge; *A. (sect. Incani DC.) robustus* Bunge; *A. (sect. Malacothrix Bunge) beckii* Bornm.; *A. (sect. Malacothrix Bunge) suluklensis* Freyn & Sint.; *A. (sect. Onobrychoidei DC.) teheranicus* Boiss. & Hohen.; *A. (sect. Sesamei DC.) schimperi* Boiss.; *A. (sect. Stereothrix Bunge) capito* Boiss. & Hohen.; *A. (sect. Theiochrus Bunge) siliquosus* Boiss.; *A. (sect. Trachycercis Bunge) barnassari* Grossh.; *Lotus tenuis* Waldst. & Kit. ex Willd.; *Medicago monspeliaca* (L.) Trautv. (syn. *Trigonella monspeliaca* L.); *Medicago* × *varia* Martyn; *Melilotus albus* Medik.; *Onobrychis melanotricha* Boiss.; *O. tavernierifolia* Stocks ex Boiss.; *O. sintenisii* Bornm.; *Oxytropis aellenii* Vassilcz.; *O. kuchanensis* Vassilcz.; *Trifolium radicosum* Boiss. & Hohen.; *Vicia armena* Boiss.; *V. hyrcanica* Fisch. & C.A.Mey.; *V. pseudocassubica* Rech.f.; and *V. variabilis* Freyn & Sint.