



Check-list of additional taxa to the supplement flora of Turkey VIII

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Cite this article as: Özhatay N, Kültür Ş, Gürdal B (2017). Check-list of additional taxa to the supplement flora of Turkey VIII. Istanbul J Pharm 47 (1): 30-44.

ABSTRACT

The eighth check-list of the series entitled "Check-list of Additional taxa to the Flora of Turkey" comprises a total of 152 taxa based on the data given in 133 papers published the period between December 2014-December 2016. Additionally taxa which have not been recorded neither in the 11 volumes of the Flora of Turkey nor in the seven previously published supplementary check-lists. With this paper the following are added to the Turkish flora: 127 taxa new to science and 25 taxa new records.

Keywords: Additional taxa, Turkish flora, new species, new records

INTRODUCTION

Turkey is one of the most important temperate countries on earth in terms of plant diversity. The diversity of vascular plants of the country has been documented in the Flora of Turkey and the Eastern Aegean Islands edited by Prof. Peter H. Davis and published in nine volumes between 1965 and 1985. With the publication of this flora, so interest in Turkey's rich plant diversity has been brought to the attention of Turkish and foreign botanists, and subsequent study has greatly increased our knowledge of the flora resulting in the addition of many new taxa.

The identification of these additional taxa has necessitated the publication of the supplementary volumes to the Flora of Turkey vol. 10 in 1988 (Davis et al. 1988) with the eleventh supplemental volume in 2000 (Güner et al. 2000). The flora of Turkey continues to grow following publication of the 11th volume, and an additional 1196 new species were added either as a new species or new records in the periods up to December 2016. These check list have been published in a series paper by Özhatay et al. as Check list III, IV, V, VI VII and VIII (Özhatay and Kültür, 2006; Özhatay et al. 2009; 2011; 2013; 2015).

Since 2000 (vol. 11) 853 papers about the flora of Turkey have been published and 1196 additional taxa have been recorded which were either new to science (888 taxa) or new to the Turkish flora (308 taxa). According to these data almost 74 taxa is added to the Turkish flora for each year. The all original publication of these taxa was subsequently drawn together by the authors as a collection housed in the library of the Department of Pharmaceutical Botany, İstanbul University. The aim of this paper is to present all published taxa added to the flora of Turkey during 2015 to 2017 with the missing records (14 papers with 24 taxa) in earlier check-lists. Since 1994 have been published eight check-list of additional taxa to the Turkish flora respectively (Table 1).

The present list contains a total of 152 taxa, of which 127 taxa were added as new taxa to science (comprising 110 species, 12 subspecies, 3 varieties and 2 hybrid), whilst a further 25 known taxa have previously been unrecorded from Turkey (21 species, 2 subspecies and 2 hybrid). The genus *Psylliostachys* (Jaub. & Spach) Nevski (Plumbaginaceae) is new for Turkish flora. The four genera which have been recorded with the most taxa to the flora of Turkey are *Centaurea* (with 13 taxa), *Crocus* (with 8 taxa), *Sanguisorba* (with 7 taxa) and *Allium* (with 6 taxa) respectively (Figure 2).

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Received: 20.03.2017

Accepted: 19.04.2017

Table 1. Statistical table of summary data of additional taxa for the checklists (N: new taxa for science, R: new record for Turkey. N: 1121, R: 405, Total: 1526)

	Check-list I (1994)		Check-list II (1999)		Check-list III (2006)		Check-list IV (2009)		Check-list V (2011)		Check-list VI (2013)		Check-list VII (2015)		Check-list VIII	
	N	R	N	R	N	R	N	R	N	R	N	R	N	R	N	R
Sp.	96	36	77	42	154	75	85	40	158	53	141	32	76	19	110	21
Subsp	16	8	26	4	12	16	23	13	20	4	29	5	1	2	12	2
Var.	11	2	5	4	15	13	9	1	9	3	8	4	-	-	3	-
Hyb.	1	-	1	1	8	2	3	-	1	-	8	1	1		2	2
Total	124	46	109	51	189	106	120	54	188	60	186	42	78	21	127	25

Vol. 11 (2000) based
on Check-list I & II

Güner et al. (2012)

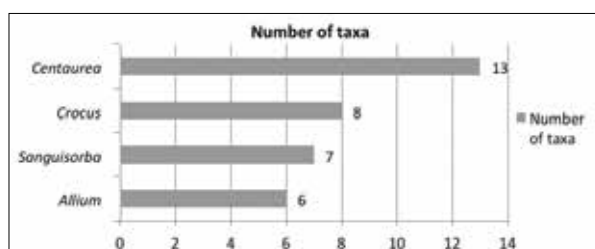


Figure 1. The four genera which have been recorded with the most taxa in Check-list VIII
The list of additional taxa

The list of the additional taxa is arranged in alphabetical order within families, genera, and species under two main systematic groups: Dicotyledonae and Monocotyledonae. The format is in accordance with that in Davis' Flora of Turkey and references to original papers appear in angled brackets at the end of the taxon name. It is hoped that this list will provide useful information for researchers currently working on the Turkish flora. We have endeavoured to trace all additional taxa to the flora published until December 2016. Although we are certain that further taxa remain unreported either in Davis Flora of Turkey or in our supplementary check-lists, then accordingly we invite all additions or comments for future issues in the series.

e: endemic species; *new record for Turkish flora; **new taxon for science; ■ new genus for Turkish flora

DICOTYLEDONES

AMARANTHACEAE

Amaranthus L. (2:340)

**A. palmeri* S. Watson in Proc. Amer. Acad. Arts 12: 274 (1877) [Eren et al. 2016]

Examined specimens: Turkey. İzmir: İzmir-Çanakkale main road, between Menemen and Yeni Foça, Helvacı village, 16 m, margin of cornfields, populations with male and female plants, 20 Sep 2015, Doğan 23/2015 & al. [pistillate specimen] (AYDN); ibid., 20 Sep 2015, Doğan 24/2015 & al. [staminate specimen] (AYDN); ibid., Buruncuk village, 13 m, roadsides, 20 Sep 2015, Doğan & al. (obs.);

Adana: Ceyhan, Mustafabeyli village, 25 m, 22 Jul 2014, Doğan 36/2014 & al. [pistillate specimen] (AYDN); ibid., 22 Jul 2014, Doğan 37/2014 & al. [staminate specimen] (AYDN); Osmaniye: Toprakkale, 120 m, roadside, 23 Jul 2014, Doğan & al. (obs.); Hatay: Erzin, 160 m, field margins, 19 Aug 2014, Doğan & al. (obs.).

Atriplex L. (2:305)

**A. oblongifolia* Waldst. & Kit., Descr. Icon. Pl. Rar. Hung. 3: 278 (1812). [Başköse and Yaprak 2016]

Examined specimens: Turkey. A1 Kırklareli: Pınarhisar, Pınarhisar-Demirkoy yolu, Poyralı köyü çıkışı, tarla ve yol kenarları, 225 m, 02.10.2013, K 041°37.775' - D 026°35.893'; Başköse-2325; Pınarhisar, Pınarhisar'a 5 km kala yol ve tarla kenarları, 150 m, 09.09.2014, K 041°36.268' - D 027°27.396' Başköse-2672; Pınarhisar, Pınarhisar-Demirkoy yolu, Poyralı köyü çıkışı, tarla ve yol kenarları, 225 m, 09.09.2014, K 041°37.775' - D 026°35.893'; Başköse-2673; Pınarhisar, Hamzabey köyü girişi, tarla ve yol kenarları, 115 m, 22.08.2015, K 041°31' 33.40" - D 027°55' 13.34", Başköse-2929; Pınarhisar, Ceylanköy girişi, tarla ve yol kenarları, 120 m, 22.08.2015, K 041°32' 49.61" - D 027°25' 54.76", Başköse-2930; A1 Edirne: Sarayakpınar, Suakacağı köyü, Tunca nehri kenarları, 55 m, 10.09.2014, K 041°50.659' - D 026°35.110'; Başköse-2687.

APOCYNACEAE

Vinca L. (6:161)

e***V. ispartensis* Koyuncu & Ekşi in Ann Bot. Fennici 52: 340-344 (2015). [Koyuncu et al. 2015]

Holotype: Turkey. Isparta: Şarkikarağaç, Kızıldağ Milli Parkı, stony slopes, 1300-1700 m a.s.l., 28 April 2013 (flowering), Kadir Terzioğlu & Faruk Canız (AEF 26342).

BORAGINACEAE

Cynoglossum L. (6:306)

e***C. brandii* Sutorý in Edinburgh Journal of Botany 73 (3): 265-275 (2016). [Sutorý 2016]

Type: Turkey. Antalya province, on the road between Anamur and Ermenek, in the summit region of mountains, 36°17'15"N,

32°54'33"W, 1700 m, 23 vi 1977, K. Sutorý s.n. (BRNM 707463) (holo BRNM; iso B, BRNM, E, K, W).

Onosma L. (6:326)

eO. anatolica** Binzet in PhytoKeys 69: 39–49 (2016). [Binzet 2016b]

Type: Turkey, C5 Niğde: Çamardı, 2 km South of Demirkazık vil-lage, subalpine community with dwarf shrub and thorn-cush-ion, 1760 m, limestone, 22 June 2015, 37°50'47"N, 35°05'32"E, Binzet 201501 (holotype: ANK; isotype: GAZI).

eO. demirizii** Kaynak, Tarımcılar & Yılmaz in Bangladesh J. Bot. 44(2): 261-265 (2015) [Tarımcılar et al. 2015]

Type: Turkey, B6 Kayseri: Pınarbaşı, 38°43'N, 36°23'E, 1540 m, 24.v.2013, G. Kaynak, Ö. Yılmaz s.n. (BULU 35011).

eO. juliae** L.Cecchi & Selvi in Phytotaxa 288 (3): 201–213 (2016). [Cecchi et al. 2016]

Type: Turkey, Karaman: Ermenek district, 5 km from Ermenek to Anamur, garrigue on calcareous rocks ["Turchia, Karaman, distretto di Ermenek, 5 km da Ermenek verso Anamur, gariga e rocce calcaree assolate"], 1200 m ca., 36°37'N, 32°55'E, 4 June 2013, L. Cecchi, M. Nepi, D. Nocentini & F. Selvi, no. 13.37 (holo-type FI, isotypes GZU and Herb. Cecchi no. 2500).

eO. malatyana** Binzet in Turk J Bot 40: 194-200 (2016). [Binzet 2016a]

Type: Turkey, B7 Malatya: Arapgir-Malatya, 19 km to Malatya, roadside and field area, 31.V.2011, 38°53'44"N, 38°35'26"E, 1275 m, Binzet 201117 (holotype: ANK; isotype: GAZI).

Paracaryum (DC.) Boiss. (6:282)

eP. bingöelianum** Behçet & İlçim in Turk J Bot 39: 334-340, (2015). [Behçet and İlçim 2015]

Type: Turkey, B8 Bingöl: SE of Genç, Şamdağı, NW rocky slopes, 1950–2000 m. 11.vii.2012, L. Behçet 8606 (in flower) (Holotype: Mustafa Kemal Univ. Herb. Isotypes: ANK, Bingöl Univ. Herb.)

BRASSICACEAE

Alyssum L. (1:362)

eA. amasianum** Karabacak & A.Duran in Turk J Bot 40: 402-411 (2016). [Karabacak et al. 2016]

Type: Turkey, A5 Amasya: Taşova, Borabay village to Başyurt Yayla, 9 km, 1382 m, serpentine slopes, roadsides, 16.08.2013, 40°48'01"N 36°07'00"E, A.Duran 9733 & O.Karabacak (holo-type: KNYA; isotypes: GAZI, ANK).

CAMPANULACEAE

Campanula L. (6:2)

eC. malatyaensis** Mutlu & Karakuş in Phytotaxa 234 (3): 287–293 (2015) [Mutlu and Karakuş 2015a]

Type: Turkey, Malatya: Hekimhan, Zürbehan Hill, 2000 m, 30 vi 2012, Ş.Karakuş 2476 & B.Mutlu (holotype INU (INU 12528-2013)).

***C. raddeana** Trautv. in Bull. Acad. Imp. Sci. Saint-Pétersbourg, sér. 3, 10: 395 (1866) [Yıldırım et al. 2016]

Examined specimens: Turkey, A9 Ardahan: Çıldır, on the way from Çıldır lake to Mazeret pass, Karaçay valley, on volcanic rock cliffs, 41°09'39"N, 43°08'19.2"E, 2100 m, 24.07.2014, H.Yıldırım 3125 (EGE); Çıldır, Karaçay valley, near Şeytan castle, on volcanic rock cracks, 41°08'45.45"N, 43°07'45.05"E, 1941 m, 10.09.2015, H.Yıldırım 3699

CAPRIFOLIACEAE

Cephalaria Schrader ex Roemer & Schultes (4:585)

eC. anamurensis** Göktürk & Sümbül in PhytoKeys 65: 25–33 (2016). [Göktürk and Sümbül 2016]

Type: Turkey, Mersin: Anamur, Anamur to Kazancı, Kırkkuyu, Bıçkıcı boğazi, 36°28'35"N; 032°44'11"E, 1784 m, steppe and stony places, 24 July 2015 Göktürk 8018, Sümbül & Çingay (holotype: Akdeniz University Herbarium 3446; isotypes: ANK, GAZI, HUB, NGBB).

CARYOPHYLLACEAE

Bolanthus (Ser.) Reichb. (2:171)

eB. turcicus** Koç & Hamzaoğlu in PhytoKeys 52: 81-88 (2015). [Koç and Hamzaoğlu 2015]

Type: Turkey, Aksaray province, Hasan Mountain above Karkın town, Hamcaoğlu 7110 and Koç (holo GAZI, iso GAZI, ANK, Dept of Bozok Univ., Herbarium of Biology), 1950 m, volcanic stony slopes and alpine steppe, 18 June 2014.

Dianthus L. (2:99)

eD. aticii** Hamzaoğlu in PhytoKeys 48: 21–28 (2015) [Hamzaoğlu et al. 2015]

Type: Turkey, Bilecik: Bilecik highway exit towards Eskişehir, 40°06'27"N, 29°59'47"E, 330 m, stony slopes and steppes, 16 June 2013 (fl, fr), E. Hamzaoğlu et al. 6743 (holotype: GAZI; iso-types: GAZI, ANK)

eD. burdurensis** Hamzaoğlu & Koç in Phytotaxa 233 (2): 196-200 (2015). [Hamzaoğlu and Koç 2015]

Type: Turkey, Burdur: Between Yeşilova and Salda village, N slopes of Eşeler Mountain, small dry meadows in forest clear-ings, 37°29'08"N, 29°39'09"E, 1590 m a.s.l., 23 August 2014, Koç & Hamzaoğlu 7170 (holotype GAZI, isotypes GAZI, ANK, HUB).

eD. macroflorus** Hamzaoğlu in Systematic Botany 40(1): 208-213 (2015). [Hamzaoğlu et al. 2015]

Type: Turkey, Antalya: Manavgat, between Taşağil and Beşkonak, 65 m, macchie, 28 jul 2012, Hamzaoğlu 6545, Aksoy & M. Koç (holotype: GAZI, isotypes: GAZI, ANK, HUB).

eD. multiflorus** Deniz & Aykurt in PhytoKeys 63: 1–12 (2016). [Deniz et al. 2016]

Type: Turkey, Antalya: Gazipaşa, from Akoluk Village to Akkaya Hill of Taşeli Plateau, c. 3. km, stony sliding slopes and serpen-tine soils in clearings of *Pinus brutia* forest, 1075 m a.s.l., 05 July 2015, İ.G. Deniz, C. Aykurt, 6195 (holotype: Akdeniz University Herbarium 3823).

***D. purpureoluteus** Velen., Fl. Bulg. 72 (1891). [Hamzaoğlu et al. 2015]

Examined specimens: Turkey. Kırklareli: between villages of Kofçaz and Kocayazi, 685 m, 7 Aug. 2012, *Quercus* forest opening, Hamzaoğlu 6593, Aksoy & M Koç (GAZI); between Kırklareli and Kofçaz, seventh km, 5 Nov 1975, A. Baytop & N. Özhatay s.n.(ISTE 34061)

Eremogone Fenzl

eE. ali-gulii** Koç & Hamzaoğlu, in *PhytoKeys* 61: 93–99 (2016). [Koç and Hamzaoğlu 2016]

Type: Turkey. Erzurum province, between Bayburt and Aşkale, Kop mountain, 40°00'N-040°32'E, 2150 m, serpentine stony slopes, 24 June 2014, Koç 1723 & Hamzaoğlu (holotype ANK, isotype Bozok Univ. Herb., ANK, GAZI).

Gypsophila L. (2:149)

eG. munzurenensis** Armağan in *Phytotaxa* 275(2): 175-180 (2016). [Armağan, 2016]

Type: Turkey. Tunceli: Ovacık, Munzur Valley, 30. Km from Tunceli to Ovacık, oak forest openings and eroded slopes, 39°17'01.1"N, 39°26'10.2"E, 1080 m, 24 July 2014, Armağan & Özel 5645 (holotype VANF-165058, isotype W).

Silene L. (2:179)

eS. bilgilitii** E. Doğan & H. Duman in *Phytotaxa* 246 (4): 293–299 (2016). [Doğan-Güner and Duman 2016]

Type: Turkey. Balıkesir: Bigadiç, South of Bozbük village, 1280 m, on the metamorphic rocks, 35 S 632832 E, 4356941 N, 29 July 2015, Duman & Çakır 10385 (holotype GAZI, isotype AN K).

eS. ertekinii** Aydın & Oxelman in *Phytotaxa* 178(2): 98-112 (2014). [Aydın et al. 2014]

Type: Turkey. Antalya: Road from Antalya to Altınyaka, 1160 m a.s.l., 36 74 N, 30.45 E, 13 May 2009, Aydın 28 (holotype: GB-0128343, isotypes: DUF, ANK).

eS. kemahensis** Aytaç & Kandemir in *Bağbahçe Bilim Der-gisi* 32(1): 7-42 (2015). [Aytaç et al. 2015]

Type: Turkey. Erzincan: Kemah, Yücebelen köyü, Sohmarık Yayla yolu, serpantin, 1816 m, 01.07.2014, Kandemir 10566, (ho-lotip/holotype: GAZI; isotip/isotype: ANK).

eS. konuralpii** Fırat & K.Yıldız in *Phytotaxa* 288 (3): 214-236 (2016). [Fırat and Yıldız 2016a]

Type: Turkey. B9 Ağrı: Eleşkirt district, Heyrangol village, hu-mid slopes steppe, 2396 m, 39°45'29"N, 42°24'00"E, 15.vi.2016, Fırat 32740 (holotype VANF; isotypes ANK, E, herb. M.Fırat, herb. Manisa Celal Bayar University)

eS. miksensis** Fırat & K. Yıldız in *Phytotaxa* 273(4): 283-292 (2016). [Fırat and Yıldız 2016b]

Type: Turkey. B9 Van: Miks (Bahçesaray) district, Çıravis Moun-tains (Çiyayê Çirawîs), limestone and rocky slopes, 3343 m, 38°09' 44" N, 42°54'04" E, 10 August 2011, Fırat 27345 (ho-lotype VANF, isotypes ANK, E, herb. M. Fırat).

COMPOSITAE

Achillea L. (5:224)

eA. adenii** Aytaç & M.Ekici in *Turk J Bot* 40: 373-379 (2016). [Aytaç et al. 2016]

Type: Turkey. C2 Muğla, Fethiye, Babadağ, calcareous rocks, 1600–1650 m, 23.07.2011, Aytaç 10429 & M. Ekici (holotype: GAZI; isotypes: ANK, HUB, and Yıldırımli).

eA. baltai** H.Duman & Aytaç in *Turk J Bot* 40: 373-379 (2016). [Aytaç et al. 2016]

Type: Turkey. C6 Niğde: Pozanti Dağı, Sivri tepe, 2050–2100 m, 08.06.2013, calcareous rocks, Duman 10321 & T. Balta, holo-type: GAZI; isotypes: ANK, HUB, Yıldırımli.

Artemisia L. (5:311)

eA. bashkalensis** Kurşat & Civelek in *Turk J Bot* 88-95 (2015). [Kurşat et al. 2015]

Type: Turkey. C10 Hakkâri: 58 km from Hakkâri to Van, roadside, slopes, steppe, 20.09.2007, 1805 m, 37°47.817'N, 44°05.156'E, M. Kurşat & Ş. Civelek 1057 (FUH).

***A. fragrans** Willd. in *Sp. Pl.* 3 (1804) 1835 [Kurşat et al. 2014]

Examined specimens: Turkey. B9 Van: Kuzgun gate, peak, 2142 m, 19.9.2007, Ş. Civelek, M. Kürşat 1049, ibid, 9.1.2010, Ş. Civelek, M. Kürşat & P. Yılmaz 5001 and (FUH); Van Kuzgun Koran gate, 1 km landing, 2161 m, 26.11.2010, Ş. Civelek, M. Kürşat & P. Yılmaz 5011; Van, Akdamar between Gürpınar and Bahçesaray, 1 km after the fork, crop edges, 1714 m, 9.10.2010, Ş. Civelek, M. Kürşat & P. Yılmaz 5012 (FUH); Van-Muradiye, wa-terfall role, 1778 m, 10.10.2010, Ş. Civelek, M. Kürşat & P. Yılmaz 5005 (FUH); Muş, Malazgirt-Aktuzla break, around Nurettin village, road side, hillsides, 1728 m, 26.11.2010, Ş. Civelek, M. Kürşat & P. Yılmaz; Muş, Aktuzla to 5.5 km, Ant valley, road up- per slopes, 1555 m, 26.11.2010, Ş. Civelek, M. Kürşat & P. Yılmaz 5020 (FUH).

***A. oliveriana** J.Gay ex Besser, *Prodr.* 6:101 (1837). [Fırat 2015a]

Examined specimen: Turkey. C9 Hakkari, from Karadağ Mountains to Berçelan Plateau, step, near road, 1927 m, 37°35'46"N, 043°43'883"E, 04.x.2014, M.Fırat 31325, VANF

Centaurea L. (5:465)

eC. amanosensis** M. Bona in *Plant Biosystems* 150(5): 1083-1086 (2016) [Bona 2016]

Type: Turkey. Hatay: Antakya, Amanos Mountains, between Kiseçik and Hacı Ahmetli villages, 1410 m, 17.06.2014, M. Bona, ISTE 102723.

eC. goksivriensis** M. Bona in *Phytotaxa* 203 (1): 063–068 (2015) [Bona 2015]

Type: Turkey. Prov. Hatay; Samandağ, Teknepinar, Musa Moun-tain, Göksivri Hill, 1200 m, 22.06.2014, M. Bona (holotype ISTE 102727).

eC. malatyensis** Ş. Kültür & M. Bona in *Phytotaxa* 247 (1): 085–091 (2016). [Kültür et al. 2016]

Type: Turkey. Malatya: Doğanşehir-Eskiköy, Aşipınar area, rocky places, 1960 m, 10.07.2012, Ş. Kültür et al. (holotype: ISTE 98931).

eC. mersinensis** Uysal & Hamzaoğlu in Biosystems (2016). [Uysal & Hamzaoğlu 2016]

Type: Turkey. C4 Mersin, Aydıncık-Yenikaş köyü üstü, *Pinus brutia* orman açıklıkları, kireçli yamaçlar, 36°08'38"N, 33°15'18"E, 520 m, 3.6.2014, Hamzaoğlu 7009 (Holotype: GAZI, isotypes: KNYA, ANK, HUB, GAZI).

eC. nallihanense** Uysal & Hamzaoğlu in Phytotaxa 275 (2): 149–158 (2016) [Uysal et al. 2016]

Type: Turkey. B2 Ankara: Nallihan, Osmanköy–Yenice arası, Taşlı yamaçlar, Meşe açıklıkları 395 m, 40°04'39" N, 30°53'41" E, 10 July 2011, Hamzaoğlu 6120 (holotype KNYA).

eC. raimondoi** Bancheva & Kaya in Fl. Medit. 25: 305-310 (2015) [Bancheva and Kaya 2015]

Holotype: Turkey. A3 Bolu: between the cities of Mengen and Pazarköy, on rocky places, N 40°55'25" N, E 32°8'12", 13 June 2012, coll. S. Bancheva & Z. Kaya, SOM-171075, Isotype PAL

eC. sakariyaensis** Uysal & Dural in Plant Biosystems DOI: 10.1080/11263504.2015.1108940 (2015). [Uysal et al. 2015]

Type: Turkey. A2 Sakarya: Sakarya-Bilecik yolu, Mekece, Cambazkaya civarı, Kayalık yamaçlar, 96 m., 40° 25' 059 N, 30° 02' 045 E, 02.07.2012, T. Uysal 2763 & H. Dural (Holotip KNYA).

eC. sennikoviana** Negaresh & Kaya in Ann Bot Fennici 52: 321-327 (2015). [Negaresh et al. 2015]

Type: Turkey. C5 Niğde: Çamardı, Nazımlı, high platean foat, (without collector) 495 (holotype ISTE, isotype HUI).

***C. sintenisiana** Gand., Bull. Soc. Bot. France 65: 37 (1918). [Pinar 2016]

Examined specimen: Turkey. C10 Hakkari: Yüksekova, 13. km from Yüksekova to Esendere, around of Dereiçi village, valley slopes, step, 2200 m, 26.08.2014, M.Pinar 5101 (VANF).

***C. verutum** L. Cent. Pl. 1:30 (1755). [Duran et al. 2014]

Examined specimens: Turkey. C6 Gaziantep: between Gaziantep-Kilis, after Gahinbey monument, 712 m, 15.05.2010, 36°52'510"N, 37° 21'020"E, M.Öztürk 1539 & A.Duran (KNYA); C6 Gaziantep: between Gaziantep-Kilis, after gahinbey monument, 712 m, 02.06.2012, 36°52'510"N, 37° 21'020"E, A.Duran 9366, Ö.Çetin & M.Çelik (KNYA, ANK, GAZI, HUB).

eC. ziganensis** Yüzb., M. Bona & İ. Genç in PhytoKeys 53: 27-38 (2015). [Yüzbaşıoğlu et al. 2015]

Type: Turkey. Gümüşhane: Zigana pass-Gümüşhane road, c. 5. Km, rocky places, 1450 m a.s.l., 20 Aug, 2014, S. Yüzbaşıoğlu 4117 (holotype: ISTE 104470, isotype: ANK).

Cirsium Miller (5:370)

***C. x prativagum** Petr. Věstn., Tiflissk. Bot. Sada 19: 22 (1911) [Yıldız et al. 2016]

(*Cirsium obvallatum* M.Bieb. x *C. pseudopersonata* Boiss. & Balansa subsp. *kusnezovianum* (Sommier & Levier) Petr.)

Examined specimen: Turkey. A9 Artvin: Şavşat, 10 km from Pınarlı village to Arsiyan hamlet, 2400 m, 02.09.2008, Dirmenci 2646 & Akçişek (hb. Yıldız).

***C. x woronowii** Petr., Věstn. Tiflissk. Bot. Sada 19: 19 (1911). [Yıldız et al. 2016]

(*Cirsium hypoleucum* DC x *C. obvallatum* M.Bieb.)

Examined specimen: Turkey. A9 Artvin: Şavşat, between Sahara and Karaköy, 1800 m, 20.09.2007, Yıldız 16739 & Arabacı (hb. Yıldız).

Galatella Cass. (5:122)

***G. cretica** Gand. in Fl. Cret. 59, No. 1044 (1916); et in Bull. Soc. Bot. France, 1916, ixiii. 235 (1919) [Yıldırım et al. 2016]

Examined specimens: Turkey. C1 Muğla: Marmaris, Söğüt village, on the Taşlıca road, 150 m, 07.11.2015, H.Yıldırım 3756 (EGE); Between Datça and Aktur, 1 km before Aktur, 10 m, in maquis, serpentine soil, 4.12.2014, R.Gül 2650a (EGE); Datça, on solid waste center way, in maquis, 200 m, calcareous soil, 4.12.2014, R.Gül 2651 (EGE)

Gundelia L. (5:325)

eG. vitekii** Armağan in Ann. Naturhist. Mus. Wien, B, 118: 129-134 (2016). [Armağan 2016]

Type: Turkey. Tunceli (Dersim), Tunceli Merkez, c. 8 km N of Tunceli, mountain slope NW of Tüllük Bucağı, 39°10'32"N 39°32'04"E, 1745 m s.m., 2015-05-31, E. Vitek, M. Armağan & M. Özel 15-0042 (holotype VANF, isotype W 2015-11168).

Hieracium L. (5:696)

eH. altinozlui** Yıld. in Ot 21(1): 15-20 (2014) [Yıldırım 2014a]

Type: Turkey. C6 Osmaniye: Zorkun, Mitis, along stream, mixed forest, serpentinous places, 135-1400 m, 05.09.2008, Ş. Yıldırım 35241, H.İşıl Yıldırım (Holo. Hb. Yıldırım, iso. GAZI, HUB)

eH. kazdaghensis** Keskin & Özyiğit in Kasmara 43(2): 12-20(2015). [Keskin et al. 2015a]

Type: Turkey. Balıkesir, Mount Ida, through the Sarıkız Peak, Yayla location, 840 m, 21.vii.2012, 39 40.580 N/26 56.646 E, M. Keskin 5833, İ.İ. Özyiğit, Z. Severoğlu (ISTE 99103).

eH. tortumense** Gottschl. & Pils in Wulfenia 23: 52–56 (2016) [Gottschlich and Pils 2016]

Type: Turkey. Tortum, Yeşiltepe deresi (valley), between Esendurak and Alapınar, alt. ca. 1600 m.s.m, 40°19'27"N, 41°25'40"E, 8.7.2001, G.Pils 4785 (holo. KL)

Klasea Cass.

eK. yunus-emrei** B. Dogan, Ocak & A. Duran in Plant Biosystems 149: 1010-1014 (2015). [Dogan et al. 2015]

Type: Turkey. B3 Eskişehir: Alpu, plantation area of Bozan, calcareous soils, 935 m, a.s.l., N 39 48.255, E 31 08.528, 26.05.2012, OUF 17594 (holotype: KNYA, isotype: GAZI).

Pilosella Hill (5:747)

eP. ilgazensis** Vladimirov, Coşkunçelebi & Kit Tan in Turk J Bot 39: 70-75 (2015). [Vladimirov et al. 2015]

Type: Turkey. A4 Cankırı: Ilgaz mountain, by tower left (west) of the pass from Ilgaz to Kastamonu, subalpine vegetation on W-

exposed slope, c. 2050 m, 41°03'13"N, 33°42'49"E, 12.07.2007, K. Coşkunçelebi 659 & V. Vladimirov (holotype: KTUB; isotypes: C, KTUB, SOM (163493).

Psephellus Cass. (5:466)

eP. vanensis** A.Duran, Behçet & B.Doga in PhytoKeys 48: 11–19, (2015). [Dogan et al. 2015]

Type: Turkey. Van: Başkale, Çaldıran village, steppe fields, 2000–2050 m a.s.l., 17 Jun 2009, Behçet & D. Avlamaz 1603 (holotype: KNYA, isotypes: GAZI, ANK, HUB, Bingöl Univ. Herb.)

Rhaponticoides Vaill.

***R. ruthenica** (Lam.) M.V.Agab & Greuter Willdenowia 33:61 (2003) [Duran et al. 2014]

Examined specimens: Turkey. B9 Ağrı: Patnos, Karakuyu village road, 1681 m, 08.08.2009, 39°20'040"N, 42°44'521"E, A.Duran 8730 & B.Doğan (KNYA); B9 Ağrı: Patnos, Beydamarlı village road, 1675 m, 19.07.2009, 39°20'656"N, 42°43'928"E, A.Duran 8619 & M.Öztürk (KNYA, ANK, GAZI, HUB).

Tanacetum L. (5:256)

eT. erzincanense** Korkmaz, Kandemir & İlhan in Turk J Bot 39: 96-104 (2015). [Korkmaz et al. 2015]

Type: Turkey. B7 Erzincan: Çayırılı, between Mantarlı and Akyurt villages, 39°43'709"N, 40°10'118"E, 1622 m, 02.07.2012, steppe, M. Korkmaz & V. İlhan 3249 (holotype: GAZI, isotypes: NGBB, ANK).

Tragopogon L. (5:657)

eT. turcicus** Coşkunç., M. Gültepe & Makbul in Nordic Journal of Botany 33: 540-547 (2015). [Gültepe et al. 2015]

Type: Turkey. B3/C3: Isparta: Şarkikaraağaç, Kızıldağ National Park, 1400 m, a.s.l., 14 Jul 2012, Coşkunçelebi and M. Gültepe 403 (holotype: KTUB, isotypes: KTUB, RUB, ANK).

eT. artvinensis** Makbul, M. Gültepe & Coşkunç in Nordic Journal of Botany 34: 529–537. [Gültepe et al. 2016]

Type: Turkey. A8 Artvin: Yusufeli, between Yaylalar and Körahmet, 2122 m a.s.l., 4 Aug 2010, Coşkunçelebi and M. Gültepe 155 (holotype: KTUB; isotypes: KTUB, RUB, KATO, ANK).

eT. vanensis** M. Gültepe, Coşkunç.& Makbul in Nordic Journal of Botany 34: 529–537. [Gültepe et al. 2016]

Type: Turkey. B9 Van: between Başkale and Van, 2052 m a.s.l., Coşkunçelebi and M. Gültepe 267 (holotype: KTUB, isotypes: KTUB, RUB, KATO, ANK).

Tripleurospermum Schultz Bip. (5:295)

eT. insularum** Inceer & Hayırlıoğlu-Ayaz in Ann. Bot. Fennici 51: 49-53 (2014) [Inceer and Hayırlıoğlu-Ayaz 2014]

Type: Turkey. Çanakkale: Gökçeada, 30 m a.s.l., 17.4.2009, Inceer 717 (holo. KTUB; iso. ANK, GAZI, E).

CRUCIFERAE

Aubrieta Adanson (1:444)

eA. ekimii** Yüzb., Al-Shehbaz and M.A.Koch in Plant Syst Evol 301: 2043-2055 (2015). [Yüzbaşıoğlu et al. 2015]

Type: Turkey. A2(A) Kocaeli, Yuvacık, Soğuksu, Menekşe yaylası patikası, Şahin kaya, 870 m, kaya üstü, 26 May 2013, S. Yüzbaşıoğlu3861 (holotype, ISTE 99694; isotypes, ANK, NGBB).

Barbarea R.Br. (1:433)

***B. bracteosa** Guss. Fl. Sic. Prodr. 2:257 (1828) [Akkemik and Yılmaz 2016]

Examined specimen: Turkey. A2 İstanbul: Elmalı Dam Basin, 110 m asl., within open area and road sides in the forest, ISTO 36729, 36730

Hesperis L. (1:452)

eH. tosyensis** A. Duran in Turk J Bot 40: 87-96 (2016). [Duran and Çetin 2016]

Type: Turkey. A5 Kastamonu: between Tosya-Sekiler village, 7 km, 1000 m, under an open *Quercus* forest, 40 55. 62 N, 34 02.06 E, 12.5.2001, A. Duran 5657 & Hamzaoğlu (holotype: KNYA, isotypes: GAZI, ANK, ISTE, ISTF, E, K).

Sisymbrium L. (1:481)

eS. malatyanum** Mutlu & Karakuş in Turk J Bot 39: 325-333 (2015). [Mutlu and Karakuş 2015b]

Type: Turkey. B7 Malatya: Akçadağ, Bayramuşağı village, İnikayası Hill, outside of cave, 1804 m, 09 v 2013, 38 20 158 N, 37 52 046 E, Ş.Karakuş 3919 (in flower) (holotype INU; isotypes INU, ANK, ISTE, HUB). 30 v 2013, Ş. Karakuş 4187 & B. Mutlu (in fruit).

EUPHORBIACEAE

Euphorbia L. (7:571)

eE. akmanii** İ.Genç & Kültür in Phytotaxa 265(2): 112-120 (2016) [Genç and Kültür 2016]

Type: Turkey. Osmaniye: Zorkun Yaylası, Gürgen orman altı, Amanos Dağ, ca.850 m, 4.vi.1968, Y. Akman 22 (holotype ANK, isotype ISTE)

ISOETACEAE

Isoetes L. (1:37)

eI. vanensis** Keskin & G.Zare in Phytotaxa 269(4): 294–300 (2016) [Zare et al. 2016]

Type: Turkey. Van: Gevaş, Artos Mountain, Aşağınarlıca Village, 38°12'17"N, 43°04'40"E, 2013 m, 24 June 2015. G. Zare 1103 with A.D. Koca, M. Armağan and M. Fidan (holotype HUB, isotypes ANK, ISTE, NGBB).

LABIATAE

Clinopodium L. (7:329)

eC. serpyllifolium** subsp. **sirnakense** Fırat & Akçiçek in Phytotaxa 201(2): 131-139 (2015). [Fırat et al. 2015]

Type: Turkey. C9 Şırnak: Cizre, the intersection of Cudi and Gabar Mountains, Kasrik pass, rock crevices, 423 m, 37°23'46.09"

N, 42°10'35.77" E, 20 October 2013, M. Firat. 30493 (holotype GAZI, isotypes ISTE, M, VANF, Balikesir Univ. Herb.)

Marrubium L. (7:165)

eM. cephalanthum** Boiss & Noë subsp. **montanum** Akgül & Ketenoğlu in Ot 21(1): 21-28 (2014) [Akgül and Ketenoğlu 2014]

Type: Turkey. A5 Amasya: Between Direkli and Yassıçal villages, above Direkli, Nalbant hill, rocky slopes, 1350-1400 m, 30.6.2007, G. Akgül 2562 (holo. ANK)

***M. eriocephalum** Seybold in Stuttgarter Beitr. Naturk., A 310: 25. 1978 [Firat 2016]

Examined specimens: Turkey. B9 Van; Başkale, İspiriz Mountains West, Serpentine rocks, 3259 m, 38°04'17"N, 43°56'23"E, 11.09.2013, M. Firat 30289 & E. Hamzaoğlu (in flower), VANF; ibid M. Firat 30335 (in fruit) VANF; B9 Van; Başkale, İspiriz Mountains East, Mobile limestone screes, near serpentine rocks, 3419 m, 38°05'04"N, 43°57'26"E, 15.09.2014, M. Firat 31010 (in flower), VANF.

eM. yildirimlii** Akgül & B. Selvi in Ot 21(2): 15-22 (2014) [Akgül and Selvi 2014]

Type: Turkey. C3 Isparta: Yalvaç, Aşağı Tistor village, from Alicinler towards the summit, 1205-1900 m, 14.6.2002, stony and rocky creeks, hills, *Q. coccifera* forest, B. Selvi 2823 (holo. Yıldırımli otluk'u, iso. HUB)

Salvia L. (7:400)

eS. hasankeyfense** Dirmenci, Celep & O. Güner in Phytotaxa 227 (3): 289-294 (2015). [Celep et al. 2015]

Type: Turkey. Batman: Hasankeyf, Hasankeyf to Karaköy, ca. 1 km from the main road to Karaköy, in valley, rocky cracks, 655 m, 37°42'7.855" N, 41°26'14.059" E, 20 June 2015, F. Celep 3782 (holotype GAZI, isotypes ANK, E).

Stachys L. (7:199)

eS. gaziantepensis** M. Dinç & S. Doğu in Proc. Natl. Acad. Sci. India, Sect. B Biol. Sci. [Dinç and Doğu 2015]

Type: Turkey. C6 Gaziantep: Şehitkamil, Yeşilce Köyü, Sof Dağı, Kayalık yamaçlar, 1060 m, 12.05.2012, M. Dinç 3467 and S. Doğu (holotype KNYA 26860, isotypes GAZI 3630, HUB 45843, Yıldırımli Herb. 20426).

eS. hakkariensis** Akçiçek & Firat in Phytotaxa 257(2): 167-173 (2016). [Akçiçek et al. 2016]

Type: Turkey. C9 Hakkari: between Şine and Marinus, rocky slopes, eroded slopes, 37°29'53"N, 43°27'47"E, 1200 m, 7.vii.2015, M. Firat 32600 (holotype GAZI, isotypes ISTE, VANF, Hb. Akçiçek, Hb. M.Firat)

***S. megalodonta** Hausskn. & Bornm. ex P.H.Davis subsp. **megalodonta** in Notes Roy. Bot. Gard. Edinburgh 21: 46 1951. [Güner and Akçiçek 2015]

Examined specimens: Türkiye, Şırnak: Uludere-Çukurca arası, Taşdelen köyü, Rüştem mahallesi, kayalık alanlar, 37° 23' 51.2» K / 42° 51' 907» D, 1236 m, 10.06.2013, Akçiçek, Dirmenci &

Ö. Güner 2343; ibid, 03.06.2015, Akçiçek, Dirmenci & Ö. Güner 2528; Uludere-Çukurca arası 60. km, kayalık yamaçlar, 37 22 701 K / 042 55 066 D, 1097 m, 03.06.2015, Akçiçek, Dirmenci & Ö. Güner 2529 (Herb. E. Akçiçek).

Satureja L. (7:314)

***S. avromanica** Maroofi in Iranian J. Bot. 16: 79 (2010). [Firat 2015b]

Examined specimens: Turkey. C9 Şırnak: Cudi Mountain and Gabar Mountain. Siirt: Botan River. October 2013, 2014.

Teucrium L. (7:53)

eT. aladagense** Vural & H.Duman in Turk J Bot 39: 318-324 (2015). [Vural et al. 2015]

Type: Turkey. Adana: Aladağ/Pozantı: Kamışlı, between Hamidiye (Pozantı district) and Büyüksöfülü (Aladağ district) villages, 1200 m, *Pinus brutia* Ten. forest, serpentine, rocky slopes, 23.06.2007. Vural (10030) & H. Duman (holotype: GAZI, isotype: ANK, HUB, ISTE, EGE, NGBB).

eT. pruinoseum** Boiss. **var. aksarayense** M. Dinç & S. Doğu in Modern Phytomorphology 9: 13-17 (2016). [Dinç and Doğu 2016]

Type: Turkey. B5 Aksaray: Hasan Dağı etekleri, Karkın köyü civarı, steppe, 1350 m, 17.07.2010, M. Dinç 3333 & S. Doğu (Holotype: KNYA, Isotypes: GAZI, HUB, Yıldırımli Herb.)

eT. sarikizensis** Keskin & Özyiğit in Kasma 43(2):2-11 (2015). [Keskin et al. 2015b]

Type: Turkey. B1 Balikesir: Mount Ida, Sarıkız Peak, 1780 m, 07.viii.1996, N. Özhatay, E. Özhatay, S. Saçlı, E. Akalın (holotype ISTE 72496).

eT. sirnakense** Özcan & Dirmenci in Turk J Bot 39: 310-317 (2015). [Özcan et al. 2015]

Type: Turkey. C9 Şırnak: between Çukurca and Şırnak, 47 km from junction of Şırnak road, Taşdelen village, rocky slopes, 37°23'36"N, 042°51'882"E, 1037 m, 10.06.2013, Dirmenci 3892, Akçiçek & Ö.Güner. (Holotype: GAZI, isotypes: ANK, HUB, ISTE, NGBB, VANF).

LEGUMINOSAE

Astragalus L. (3:49)

eA. topalanense** Behçet & İlçim in Turk J Bot 40:74-80 (2016). [İlçim and Behçet 2016]

Type: Turkey. B8 Bingöl: Between Topalan and Çirişli villages, in *Quercus petraea* (Matt.) Liebl. subsp. *pinnatiloba* (K.Koch) Menitsky and *Q. libani* G. Olivier forest clearings, 1700-1750 m, 01.05.2013, L. Behçet 8605. (holotype: Bingöl Univ. Herb., isotypes: Mustafa Kemal Univ. Herb., Bingöl Univ. Herb. ANK).

eA. unalii** Çeçen, Aytaç and Mısırdalı in Turk J Bot 40:81-86 (2016). [Çeçen et al. 2016]

Type: Turkey. C4 Karaman: 19 km North of Karaman, Karadağ Mountain, southwest of Davda Hill, steppe, 1140-1345 m, 03.05.2013, Ö. Çeçen 1941, Unal and Mısırdalı (holotype: GAZI, isotypes: HUB, Yıldırımli, KNYA, and ANK).

eA. yukselii** Karaman & Aytaç in Turk J Bot 37: 836-840 (2013). [Karaman-Erkul and Aytaç 2013]

Type: Turkey. C4 Konya: Hadim, 3 km from Hadim to Taşkent, steppe, 1580 m, 11.06.2011, S.Karaman 2620 & Y.Karaman (holotype: GAZI, isotypes: ANK, GAZI).

Dorycnium Miller (3:512)

***D. pentaphyllum** Scop. subsp. *pentaphyllum* in Fl. Carniol., ed. 2. 2: 87 (1772) [Aybeke 2016]

Examined specimen: A1(E) Edirne: Centre, Budakdoğanca village, in hilly environment of Taşkaynak Deresi, 41.758849°N, 26.367967°E, 06.06.2015, coll. & det. M. Aybeke (EDTU 15003).

MALVACEAE

Kitaibelia Willd. (2:404)

***K. vitifolia** Willd. in Neue Schriften Ges. Naturf. Freunde Berlin 2: 107 (1799). [Ertuğrul et al. 2016]

Examined specimen: Turkey. C6 Osmaniye: Amanos Mountains, clearings of pine forest, 1400 m, 26.vii.2014, O. Tugay 10.138 (KNYA).

ONAGRACEAE

Chamaenerion Adanson (4:183)

eC. angustifolium** var. *karsianum* Tzvelev in Novosti Sist. Vyssh. Rast. 45: 46. (2014) [Tzvelev 2014]

Type: Turkey. Kars: in monte Surb-Chacz, 4.viii.1909, T. Roop. LE

eC. bordzilovskyi** Tzvelev in Novosti Sist. Vyssh. Rast. 45: 47. (2014) [Tzvelev 2014]

Type: Armenia rossica, distr. Kagyzman, in schistosis in monte Kecza-czi, 31.VII.1910, leg. T. Roop. (LE). (a region of Turkey adjacent to Armenia).

PLUMBAGINACEAE

■ **Psylliostachys** (Jaub. & Spach) Nevski

***P. spicata** (Willd.) Nevski in Trudy Bot. Inst. Akad. Nauk SSSR, Ser. 1, IV: 314 (1937) [Celep et al. 2016]

Examined specimens: Turkey. B9 Siirt: Akdoğmuş köyü, tuzcul alan, 03.05.2013, 37°51'618"N, 042°03'119"E, 617 m, O.Karabacak 8834 (GAZI, ANK); ibid, 01.07.2013, O.Karabacak 8849 (GAZI); Eruh, Gölgekonak köyü, tuzcul alan, 31.05.2014, 37°46'348"N, 042°06'883"E, 763 m, M. Fidan 1874 (GAZI); Eruh, Üzümlük köyü, tuzcul alan, 31.05.2014, 37°46'699"N, 042°45'743"E, 730 m, M. Fidan 1880 (GAZI).

POLYGALACEAE

Polygala L. (1:533)

eP. turcica** Dönmez & Uğurlu in Novon 45(3): 429-434 (2015). [Dönmez et al. 2015b]

Holotype: Turkey. A9 Kars, Kağızman-Karakurt road, 5 km from Kuloğlu village to Karakurt, 40 0380 N, 42 51 69 E, 1314 m, stony slopes along Aras river, 14 May 2009, Dönmez 15242 (HUB; isotypes: HUB, W).

PRIMULACEAE

Lysimachia L. (6:135)

eL. savranii** Başköse & A.Keskin in Phytotaxa 267(3): 228-232 (2016). [Başköse et al. 2016]

Type: Turkey. Adana: Karaisalı district, Kızıldağ Plateau, north side of Susuz Mountain, Koyun Kirkacağı mevki, 1500-1550 m, 37°24'34"N-35°04'34"E, 18 June 2014, A. Savran, İ. Başköse, K. Gurbanov, and A. Keskin 1071 (holotype ANK, Isotype ANK and Nigde University Herbarium).

RANUNCULACEAE

Nigella L. (1:98)

eN. koyuncui** Dönmez & Uğurlu in Novon 23(4): 411-415 (2015). [Dönmez et al. 2015a]

Type: Turkey. Sinop: Boyabat, Uzunçay village, 41 38 N 034 36 E, 442 m, 7 July 2009, A. A. Dönmez & Z. Uğurlu 15801 (holotype, HUB, isotypes, AEF, HUB, MO).

RUBIACEAE

Galium L. (7:767)

eG. bingolense** Yıldırım & Ö.Kılıç in Ot 21 (2): 1-14 (2014) [Yıldırım & Kılıç 2014]

Type: Turkey. B8 Bingöl: Solhan, HAZARŞAH köyü, Aksakal Göl mezarası, derenin volkanik taşlı yamaçları, 1700 m, 22.6.2014, Şinasi Yıldırım 40313 & Ömer Kılıç (holo. Hb. Yıldırım, iso. BİN, GAZI, HUB, Hb. Yıldırım)

eG. shinasii** Yıldırım in PhytoKeys 75: 19-29 (2016) [Şık et al. 2016]

Type: Turkey. B7 Malatya: Akçadağ district, Levent Canyon, on marlstone rocky cliffs 1390 m, 26.06.2011, H.Yıldırım 2128 (holotype: EGE42431, isotypes: EGE42432, NGBB, ANK).

ROSACEAE

Rubus L. (4:30)

eR. sivasicus** Yıldırım & Ö.Kılıç in Ot 21 (2): 1-14 (2014) [Yıldırım & Kılıç 2014]

Type: Turkey. B6 Sivas: Zara, Halkalı ve Korkut köyleri karşısı, bozkır, jipzizli dere, tepe, bayır, karışık orman ve açıklığı, 1385-1500 m, 19.6.2014, Şinasi Yıldırım 40086 & Ömer Kılıç (holo. Hb. Yıldırım, iso. BİN)

Rosa L. (4:106)

eR. x ozcelikii** Korkmaz & Kandemir in Phytotaxa 245 (3): 207-215 (2016). [Korkmaz et al. 2016]

(*R. villosa* L. subsp. *mollis* (Sm.) Hook.f. × *R. hemisphaerica* Her-
rm.)

Type: Turkey. B7 Erzincan: Çayırli District, between Verimli and Balıklı villages, about 15 km to Çayırli district, field side, 1641 m, 39° 52' 418" N, 39° 55' 644" E, 2 June 2014, Korkmaz 4081 (holotype: ANK, isotypes: GAZI, NGBB, GUL).

Sanguisorba L. (4:77)

eS. durui** Yıldırımli in Ot 21 (2): 23-48 (2014) [Yıldırımli 2014b]

Type: Turkey. B1 Manisa: Soma, Madenci çeşmesi, yol kenarı, c.600 m, 12.05.1977, Özcan Seçmen 886 (holo. HUB, iso EGE)

eS. magnolii** (Spach) Rothn. & P.Silva subsp. **bicakcii** Yıldırımli in Ot 21 (2): 23-48 (2014) [Yıldırımli 2014]

Type: Turkey. C3 Antalya: Kemer, Beldibi, Seagull otelden Göynük deresi ağzına, kumul, kızılçam ormanı altı, 1-5 m, 21.04.2007, Ş. Yıldırımli 33549 (holo. Yıldırımli Otluk'u)

eS. magnolii** (Spach) Rothn. & P.Silva subsp. **goekhanii** Yıldırımli in Ot 21 (2): 23-48 (2014) [Yıldırımli 2014]

Type: Turkey. C2 Muğla: Fethiye, Kelebekler kepezi (vadisi), kayalık, taşlık, ağaçlık, maki, orman, çağlayana dek izlek ile, 1-150 m, 22.04.2012, Ş. Yıldırımli 38216 (holo. Yıldırımli Otluk'u, iso. EGE, HUB, Yıldırımli Otluk'u).

eS. magnolii** (Spach) Rothn. & P.Silva subsp. **magnolii** var. **koruklii** Yıldırımli in Ot 21 (2): 23-48 (2014) [Yıldırımli 2014]

Type: Turkey. C3 Antalya: Kemer, Olimpos ören yeri, kayalık, duvar, su kıyısı, kumul, 1-5 m, 24.04.2010, Ş. Yıldırımli 36691 (holo. Yıldırımli Otluk'u, iso. ANK, EDTU, EGE, GAZI, HUB, ISTE, Yıldırımli Otluk'u)

eS. minor** Scop. subsp. **kucukodukii** Yıldırımli in Ot 21 (2): 23-48 (2014) [Yıldırımli 2014]

Type: Turkey. C3 Konya: Beyşehir, göl kıyısı, kamış birliği, kumlu ve nemli yerler, 1220 m, 01.06.2008, Ş. Yıldırımli 34900 & Görkem Yıldırımli (holo. Yıldırımli Otluk'u)

eS. muricata** Franch subsp. **mushensis** Yıldırımli in Ot 21 (2): 23-48 (2014) [Yıldırımli 2014]

Type: Turkey. B8 Muş: Meslek yüksek okulu çevresi, ova, 1300 m, 4.6.1999, Ş. Yıldırımli 23856 (holo. Yıldırımli Otluk'u, iso HUB)

eS. sirnakia** Yıldırımli in Ot 21 (2): 23-48 (2014) [Yıldırımli 2014]

Type: Turkey. C9 Şırnak: Cudi dağı, kuzey eteği, Gümüş tepesi, korunmuş alan, kömür kumullu, meşelik, 1100-1200 m, 20.6.2005, Ş. Yıldırımli 30048 (holo. Yıldırımli Otluk'u, iso HUB)

Sorbus L. (4:147)

***S. xlatifolia** (Lam.) Pers. in Syn. Pl. [Persoon] 2(1): 38. 1806 [Zieliński and Vladimirov 2013]

Examined specimen: Turkey. Prov. Kastamonu, Daday to Azdavay, 35 km from Daday, on the banks in Abietum, 1000 m, 30.07.1962, coll. Coode & Yaltirik in: Davis 38662 (KOR 19958; E: barcode E00408672)

SCROPHULARIACEAE

Scrophularia L. (6:603)

eS. lucidaifolia** Uzunh. & E. Doğan in Phytotaxa 204 (1): 095–098 (2015) [Uzunhisarcıklı et al. 2015]

Type: Turkey. C5 Mersin: Gözne, Işıktepe-çukurkeşli, stony slopes, 612 m, 7 May 2014, E. Uzunhisarcıklı 2501 & E.D. Güner (holotype GAZI; isotypes ANK, HUB).

Verbascum L. (6:461)

eV. ibrahim-belenlii** Karavel. in Phytotaxa 212 (3): 246-248 (2015). [Karavelioğulları 2015b]

Type: Turkey. Kars: Tuzluca-Kağızman 10 km, 1300-1400m, riverside, meadows, 2 June 2002, F. A. Karavelioğulları 3267., M. Ekici & Alkan (holotype GAZI, isotype ANK).

eV. x ersin-yücelii** Karavel. in Biodicon 8/1: 78-82 (2015). [Karavelioğulları, 2015a]

(=V. *heterobarbatum* Hub.-Mor. x V. *caudatum* Freyn & Bornm.)

Type: Turkey. A4 Ankara: Kalecik, nr. Çukur köy, Kılınç 1975 (Holotype ANK).

eV. kurdistanicum** Fırat in PhytoKeys 52: 89-94 (2015). [Fırat, 2015c]

Type: Turkey. C9 Hakkari: Berçelan Plateau, 37 40 57 N, 043 43 21 E, 2600-2800 m, limestone rocks and steppe, 21 July 2011, M. Fırat 27584. (Holotype: VANF, isotype: ANK, GAZI, HUB, VANF, E).

eV. mecit-vuralii** Karavel. in Biodicon 8/1: 78-82 (2015). [Karavelioğulları, 2015a]

Type: Turkey. A8 Trabzon: Hamsiköy, 650-700 m, 15 June 2009, FAK 3875. (Holotype; ANK, Isotype: GAZI).

eV. misirdalianum** Karavel. Çeçen and Ünal in Phytotaxa 217 (1): 96-99 (2015). [Çeçen et al. 2015]

Type: Turkey. C4 Karaman: 40 km North of Karaman, Çakırdağı Mountain, southwest of Yalnızdağ Hill, steppe, 1100-1300 m, 3 May 2013, Ö. Çeçen 700, A. Ünal & H. Mısırdalı (holotype: KNYA, isotypes: HUB, Yıldırımli, KNYA, and ANK).

UMBELLIFERAE

Angelica L. (4:431)

eA. turcica** Hamzaoglu & Koc in Phytotaxa 245(1): 66-70 (2016). [Hamzaoğlu and Koç 2016]

Type: Turkey. Kastamonu: Between Devrekani and Bozkurt, S. of Mamatlar village, above Koru Yaylası, Yaralığöz Mountains, 145 m, 22.viii.2014 (flower and immature fruit), Hamzaoğlu 7193 & Koç (holotype GAZI, isotypes ANK, GAZI, HUB)

Anthriscus Pers. (4:321)

eA. lamprocarpa** Boiss. subsp. **chelikii** Tekin & Civelek in Phytotaxa 253(4): 275–284 (2016). [Tekin and Civelek 2016]

Type: Turkey. C4 Mersin: Mut to Ermenek, 38. km, Adras Mountain, 1158 m, 36°34'50.3"N, 33°13'07.3"E, with flowers and fruits, 25 May 2011, M. Tekin 1092 (holotype CUFH).

Dichoropetalum Fenzl (4:635)

eD. alanyensis** Bilgili, Sağıroğlu & H. Duman in Turk J Bot 40: 201-208 (2016). [Bilgili et al. 2016]

Type: Turkey. C3 Antalya: Alanya-Gökbel plateau, rocky slopes, 1650 m, 06.07.2006, B. Bilgili 2416 & M. Sağıroğlu (holotype: GAZI, isotype: ANK, HUB).

eD. vuralii** Özbek & Arslan in Phytotaxa 278 (2): 153-162 (2016). [Özbek et al. 2016]

Type: Turkey. C3 Isparta: Yenişarbademli, Dedegöl Mountains, above Melikler pastures, transition to alpine zone from *Pinus nigra* subsp. *pallasiana* and *Quercus vulcanica* stand, 1700-1820 m, 24.viii.2012, U. Özbek 2852 & M.Arslan (holotype: GAZI, isotype: ANK).

Grammosciadium DC. (4:318)

eG. macrodon** Boiss. subsp. *nezaketae* B.Bani in Phytotaxa 224(3): 267-275 (2015). [Bani and Koch, 2015]

Type: Turkey. C9 Van: Çatak, around of Dalbastı village, clearing of oak woodland, 1450 m, x: 42.935397; y: 37.910315, 10 June 2012, B. Bani 6832 (holotype GAZI, isotype ANK).

Pastinaca L. (4:481)

eP. erzincanensis** Menemen & Kandemir in Ann Bot Fennici 53(5-6):373-382 (2016). [Menemen et al. 2016]

Type: Turkey. B7 Erzincan: Tatlısu köyünün güney batısı, Mercan suyu yolu, hareketli taşlı yamaçlar, (UTM) 37 S 553556E, 437848 N, 2165 m a.s.l., 25.6.2013, Kandemir 10426 (holo ADO, iso ADO, NGBB).

Pimpinella L. (4:352)

eP. enguezekensis** Yıldırım, Akalın & Yeşil in Phytotaxa 289 (3): 237-246 (2016) [Yeşil et al. 2016]

Type: Turkey. B6 Malatya: Darende District, Ergü road, Kilise location, gypsum-marl soils, 1420 m elevation, 22 July 2015, H.Yıldırım HY3492 (holotype: EGE 42433, isotype: EGE 42434, ISTE, NGBB, ANK).

eP. ibradiensis** Çinbilgel, Eren, H. Duman & Gökçeoğlu in Phytotaxa 217 (2): 164-172 (2015). [Çinbilgel et al. 2015]

Type: Turkey. C3 Antalya: İbradi, Toka yayla, in Trifolio-Polygonetalia community on flat or gently sloping stony places with plentiful fine soil and good water supply, limestone, 37 13 253 N, 31 22 503 E, 1527 m, 02 July 2011, Çinbilgel 7975 & Eren (holotype GAZI, isotypes ANK, AYDIN, Herbarium of Akdeniz University, HUB).

Prangos Lindley (4:382)

eP. abieticola** Aytaç & H.Duman in Edinburgh Journal of Botany 73(1): 125-131 (2016) [Aytaç and Duman 2016]

Type: Turkey. C3 Antalya: Akseki-Seydişehir, 38th km, 1600 m, in open forest of *Abies cilicica* and *Pinus nigra*, calcareous rocks, 23 vii 2010, H. Duman 10209 (holo GAZI; iso ANK, HUB).

Seseli L. (4:367)

eS. gummiferum** Pall. ex Sm. subsp. *ilgazense* A. Duran, Ö. Çetin & M. Öztürk in PhytoKeys 56: 99-110 (2015). [Çetin et al. 2015]

Type: Turkey. A4 Kastamonu: Ilgaz Mountain Natural Park, Kastamonu road, from Çatören village to Büyük Hacet Hill, 6 km, in open *Pinus sylvestris* L. and *Abies nordmanniana* (Stev.) Spach. Mixed forest, serpentine stony slopes, 41 06 344 N, 3348 628 E, 1465 m, 22 August 2008, A. Duran 8135, Ö. Çetin & M. Öztürk (holotype KNYA, isotypes ANK, GAZI, HUB).

URTICACEAE

Parietaria L. (7:636)

eP. semispeluncaria** Yıldırım in Phytotaxa 226 (3): 281-287 (2015). [Yıldırım 2015b]

Type: Turkey. Malatya: Akçadağ district, Levent Canyon, on marlstone cliffs, 38 23 31.03 N, 37 54 36.26 E, 1390 m, 16 June 2014, H. Yıldırım 2896 (holotype: EGE, ANK, GAZI, NGBB).

VALERIANACEAE

Valerianella Miller (4:559)

eV. turcica** A. Doğru-Koca & G. Zare in Phytotaxa 272 (2): 157-164 (2016) [Doğru-Koca et al. 2016]

Type: Turkey. Karaman: North of Çakırdağı, between the villages of Beydili and Akçaşehir, around Fahrettin's sheep pen, protected area, steppe, 1069 m, 16.v.2015, ADK4385 with GZ & Ö. Çeçen (holo. HUB)

VIOLACEAE

Viola L. (1:524)

eV. barhalensis** Knoche & Marcussen in Phytotaxa 275(1): 14-22 (2016). [Knoche and Marcussen, 2016]

Holotype: Turkey. A8 Artvin: southern slope of the Kaçkar Mountains, Barhal River Valley, along road from Barhal/Altıparmak to Yaylalar, 1700 m, 40°51'58.51"N 41°19'13.65"E, 06 May 2014, G. Knoche K 14/9 (holotype W).

MONOCOTYLEDONS

ARACEAE

Arum L. (8:43)

***A. sintensisii** (Engl.) P.C.Boyce, Ann. Mus. Goulandris 9: 33 (1995) [Yıldırım and Altıoğlu 2016b]

Examined specimens: Turkey. Muğla: Fethiye, Kayaköyü, Kınalı mevkii, tarla içi, 50 m, 21.03.2015, H.Yıldırım 3160 (EGE); Fethiye, Kayaköyü, Kınalı Mahallesi, tarla içi, 50 m, 18.04.2015, H.Yıldırım 3175 (EGE).

Biarum Schott (8:55)

***B. aleppicum** J.Thiébaud, Bull. Soc. Bot. France 95: 21 (1948) [Yıldırım et al, 2016]

Examined specimens: Turkey. Şanlıurfa: Şanlıurfa-Birecik karayolu Bentbahçesi yol ayrımı 1. km, 20.09.2005, 480 m, step, M.M.Balos 1530 (Harran Üniv. Herbaryumu); Şanlıurfa-Birecik karayolu Mezra köyü, Akarçay yolu, Akarçay'a 1 km kala, 23.04.2015, 480 m, step, H.Yıldırım 3186 (EGE). Suriye: Alep, Fr. Louis s.n. (lektotip: P00733219).

eB. rifatii** Yıldırım & Altıoğlu in Bağbahçe Bilim Dergisi 3(2): 12-19 (2016) [Yıldırım and Altıoğlu 2016a]

Type: Turkey. Antalya: Kaş, Palamut Köyü, Ağaçalı Akgedik Yaylası ile Rahat Yaylası arası, açık dağ yamaçları, 1800-2000 m, 20.vi.2016, H. Yıldırım (holotip: EGE-42437, izotip: EGE-42438, NGBB, ANK).

GRAMINEAE

Agropyron Gaertner (9:204)

***A. pinifolium** Nevski, Trudy Sredne- Aziatsk. Gosud. Univ., Ser. 8b, Bot. 17: 57 1934. [Cabi et al. 2015]

Examined specimen: Kırklareli: Vize to Kırıkköy, about 5 km from Vize, calcareous stony places, 41° 59'25" N 27° 8'27" E, 400 m, 16 June 2013, E. Cabi & E. Karabacak.

Bellardiochloa Chiov. (9:442)

e****B. doganiana** Cabi & Soreng in Phytotaxa 205 (2): 123-128 (2015) [Cabi et al. 2015]

Type: Turkey. Konya: Bozkır, Palaz Dağları, step slopes on north-west side of pass to Hacıobası, 2015 m, 37.04410 N, 32.09117 E, 25.vii.2014, R.J. Soreng 8861, E. Cabi & B. Çingay (holotype US, isotype ANK, B, CAN, E, G, HAOC, ISTE, K, KNYA, LE, NAKU, W)

Poa L. (9:470)

***P. eigii** Feinbrun in Bull. Misc. Inform. Kew 1940: 280 (1941). [Cabi and Soreng 2016]

Examined specimens: C1 Aydın: Aydın Mountains. Along road to the summit from Aydın, near the summit. 37°57'11.3" N, 27°53'53.2" E, 1615m; 20 Jun 2011; Open, calcareous rock, rocky and dry; L. Gillespie, E. Cabi, R. Soreng, and K. Boudko, s.n.(CAN, NAKU, US).

***P. pratensis** subsp. *irrigata* (Lindm.) H. Lindb. Sched. in Pl. Finl. Exs. 2: 20 (1916). [Cabi and Soreng 2016]

Examined specimens: A2(A) Bursa Uludağ, 1659 m, under Abies and Carpinus sp., 24 Jun 2014 E. Cabi s.n. (NAKU); B2 Kütahya Simav, Simav mount. around summit, clearings and under *Pinus nigra* forest, E. Cabi, F. Celep s.n. (NAKU, US); B4 Ankara, METU Campus, around Tennis court, 2 Jun 2007, E. Cabi s.n. (NAKU).

Pseudophleum M.Doğan (9:397)

e****P. anatolicum** Doğan, Behçet & A.Sinan in Systematic Botany 40(2):454-460 (2015). [Doğan et al. 2015]

Type: Turkey. B8 Bingöl: West of Bingöl, 4-5 km from the city cemetery on the road to Aşağı Köy, 1150-1200 m, 25.v.2013, L. Behçet 8703 (holotype: ANK, isotype: GAZI)

IRIDACEAE

Crocus L. (8:413)

e****C. ancycensis** subsp. *guneri* in Phytotaxa 266 (3): 219-225 (2016) [Yüzbaşıoğlu and Celep 2016]

Type: Turkey. A5 Amasya. Göynücek, Bekdemir köyü çevresi, 505 m, bozkır yamaçlar, 2 March 2007, A. Güner (14380), F. Tezcan, M. Öztekin (holotype NGBB 1864).

e****C. antalyensioides** Rukšāns in International Rock Gardener 64 (2015) [Rukšāns 2015]

Type: Ex culturae in horto Jānis Rukšāns. (Plants from NW Turkey, Bursa province, near the road from İnegöl to Domaniç). Cultivated plants collected on 26-02-2011 (TULA-024). Holotype: GAT, Isotype GB.

e****C. dilekyarensis** Rukšāns in International Rock Gardener 64 (2015) [Rukšāns 2015]

Type: Ex culturae in horto Jānis Rukšāns. (Plants from W Turkey, Aydın prov., Dilek Yar, W of the ruins of Priene, alt. ~ 190m). Collected on 14-03-2008 (R2CV-018). Holotype: GAT.

e****C. kofudagensis** Rukšāns in International Rock Gardener 64 (2015) [Rukšāns 2015]

Type: Ex culturae in horto Jānis Rukšāns. (Plants from SW Turkey, W Antalya province, after the turn to Kaş from the road to Kalkan-Elmalı). Cultivated plants collected on 01-11-2009 (JJJ-024). Holotype: GAT, Isotype GB.

e****C. musagecitii** Erol & Yıldırım, in Phytotaxa 239: 223-232 (2015). [Erol et al. 2015]

Type: Turkey. Artuklu, Mardin province, 950 m, 4 January 2014, Musa Geçit (holotype ISTF 41070, isotype EGE 42337).

e****C. sozenii** Rukšāns in International Rock Gardener 64 (2015) [Rukšāns 2015]

Type: Ex culturae in horto Jānis Rukšāns. (Plants from NW Turkey, Manisa province, Simav Dağları, altitude 1370m, at the edge of a Pinus forest). Collected 15-03-2013 (13TUS-028). Holotype: GAT.

e****C. thracicus** Yüzb. & Aslan in Phytotaxa 197(3): 207-214 (2015) [Yüzbaşıoğlu et al. 2015]

Type: Turkey. A1(E) Kırklareli: Vize, Saray-Vize yolu, c. 10 km, Quercus sp. & Paliurus spina-christi Mill. açıklıkları, 170 m, 8 February 2014, S. Yüzbaşıoğlu 3920, S. Aslan, İ. Sözen, F. Canız (holotype ISTE 102922, isotype DUOF 5630).

e****C. yakarianus** Yıldırım & O. Erol in Nordic Journal of Botany 31: 426-429 (2013). [Yıldırım and Erol 2013]

Type: Turkey. B6/7 Malatya: Doğanşehir, mountain slopes, 1900 m a.s.l., 12 Apr. 2012, H. Yıldırım 2265 (holotype: EGE: 40802, isotype: ISTF 40841).

LILIACEAE

Allium L. (8:98)

e****A. bingoelense** Yıldırım & Ö.Kılıç in Ot 21 (2): 1-14 (2014) [Yıldırım & Kılıç 2014]

Type: Turkey. B8 Bingöl: Merkez, Dikme köyü, volkanik kayalık ve taşlık, meşelik ve açıklığı, 1750-2000 m, 21.6.2014, Şinasi Yıldırım 40265 & Ömer Kılıç (holo. Hb. Yıldırım, iso. BIN, HUB)

e****A. dumanii** Koyuncu & Koçyiğit in Willdenowia 46: 113 - 119 (2016). [Koçyiğit et al. 2016]

Holotype: Turkey. C6 Kahramanmaraş, Engizek Mountain, Küçükyeşil area, 2300 m, 19 Jul 1986, H. Duman 1987 (AEF; isotypes: GAZI, ISTE).

e****A. ekimianum** Ekşi, Koyuncu & Özkan in PhytoKeys 62: 83-93 (2016). [Ekşi et al. 2016]

Type: Turkey. Elazığ: Firat University, steppe, c. 1150 m, 02.07.1983, Koyuncu 7847 (holotype: AEF, isotype: GAZI).

eA. phaneranthemum** subsp. **involutatum** Ekşi, Koyuncu & M. Bona in Bangladesh J. Plant Taxon. 22(2): 143-146 (2015) [Ekşi et al. 2015]

Holotype: Turkey. Hatay: Antakya, above Kisecik, trackside, c. 900 m, 22 Aug 2013, G. Ekşi & M. Bona (AEF26318).

eA. undulatifolium** İ. Genç & N. Özhatay in Phytotaxa 212(4): 283-292 (2015). [Deniz et al. 2015]

Type: Turkey. C3 Antalya: Akseki, Çaltılıçukur village, Salamat Plateau, calcareous stony and grassy slopes close to *Cedrus libani* forests, 36 53 N, 31 55 E, 1600 m, 9 May 1982, T. Ekim M. Koyuncu s.n. (holotype ISTE 54419; isotypes AEF).

eA. urusakiorum** Özhatay, Seregin & N.Friesen in Phytotaxa 275 (3): 228–242 (2016). [Koçyiğit et al. 2016]

Type: Turkey. A1 (E) Kırklareli: Demirköy, Mahya Mt, Sarpdere village, 358m, 3 October 2009, E. Akalin Urusak & Y. Yeşil (holotype, ISTE 92497).

Bellevalia Lapeyr. (8:264)

eB. behcetii** Pinar, Eroğlu & Fidan in Phytotaxa 270(2): 127-136 (2016). [Pinar et al. 2016]

Type: Turkey. C9 Şırnak: Balveren, Gavur Mountain (Ermeni Mountain), around of Yamyam Cave, 37°30'02"N, 42°32'51"E, oakland yards, stony-rocky slopes, 1780 m, 26 April 2015, M.Pinar 5563 (holotype VANF, isotypes GAZI, ANK).

eB. chrisii** Yıldırım & B. Şahin in Nordic Journal of Botany 33: 45–49 (2015) [Yıldırım et al. 2015]

Type: Turkey. C6 Malatya: Pötürge, Pötürge-Nemrut mountain road, Kubbe passing, mountain steppe, 1900 m a.s.l., 28 May 2012, H. Yıldırım 2358 (holotype: EGE, isotype: EGE).

eB. koyuncui** Karabacak & Yıldırım in Phytotaxa 203 (1): 081-084 (2015). [Karabacak et al. 2015]

Type: Turkey. B9 Siirt: Şirvan, Nallıkaya köyüne 5 km kala, step, 1286 m, 13 April 2014, O. Karabacak 9040 (holotype EGE; isotype GAZI, ANK).

eB. vuralii** B.Şahin & Aslan in Turk J Bot 40: 394-401 (2016). [Şahin et al. 2016]

Type: Turkey. Siirt: Siirt-Eruh yolu, Sağlarca köyü, bozkır, 463 m, 14.04.2009, S. Aslan 3148 & B. Şahin; (holotype: DUOF 5750, paratypes: ANK, GAZI, DUOF).

Fritillaria L. (8:284)

eF. asumaniae** R. Wallis, R. B.Wallis & N. Özhatay in Flora Mediterranea 25: 199-208 (2015) [Özhatay et al. 2015]

Type: Turkey. C3 Antalya. Kemer, west of Göynük, forest in deep leaf soil amongst limestone rocks under tall pine woodland, 250 m. 29.III.2012, N. Özhatay and A. Kavgacı (Holotype: ISTE 106610).

Gagea Salisb. (8:312)

***G. minima** (L.) Ker Gawl. Quart. J. Roy. Inst. 1: 180 (1816). [Tekşen et al. 2015]

Examined specimen: Türkiye. Van: Güzelsu- Başkale arası, Güzeldere Geçidi, taşlık yamaçlar, 2700 m, 11.v.2014, İ. Eker 3892, S. Aslan & M. Bozdoğan (AIBU, DUOF 6071).

Muscari Mill. (8:245)

eM. atillae** Yıldırım in Phytotaxa 213(3): 291-295 (2015). [Yıldırım 2015a]

Type: Turkey. B7 Malatya: Akçadağ district, Levent Canyon, west of Çayözü village, on marlstone-calcareous slopes, 1185 m of elevation, 10 April 2014, H. Yıldırım 2800 (holotype EGE, isotypes ANK, EGE, GAZI, NGBB).

eM. elmasii** Yıldırım in Turk J Bot 40: 380-387 (2016). [Yıldırım 2016]

Type: Turkey. C2 Muğla: Fethiye, Çaldağı, açık Serpantin yamaçlar, 1275 m, 19.05.2014, H.Yıldırım 2825 (holotype: EGE, isotypes: EGE, ANK, herbarium NGBB).

eM. serpenticum** Yıldırım, Altıoğlu & Pirhan in OT Sistemantik Botanik Dergisi 20(1): 1-14 (2014). [Pirhan et al. 2014]

Type: Turkey. C2 Muğla: Köyceğiz, Sandras mountain, Sandras tapleland, on serpentine soil slopes, 1460 m, 04.04.2008, H. Yıldırım 1295 (holo. EGE, iso. EGE, Hb. Yıldırımli).

Prospero Salisb.

eP. cudidaghense** Firat & Yıldırım in Turk J Bot 40: 388-393 (2016). [Firat and Yıldırım 2016]

Type: Turkey. C9 Şırnak, Silopi, Cudi Dağı Güney yamacı, Kireç kayası bloklarının çatlağında, 700 m, 37°23'31"N, 42°20'21"E, 02.05.2014, M.Firat 30575 (holotype: EGE, isotypes: EGE).

Scilla L. (8:214)

eS. alinihatiana** Aslan & Yıldırım in Bağbahçe Bilim Dergisi 2(2): 33-41 (2015). [Yıldırım and Aslan 2015]

Type: Türkiye. Artvin: Yusufeli, Sarıgöl, Yüksekoba Köyü, Mar-sis Dağı, Salıkvan Yaylası civarı, yüksek dağ çayırıkları, 2250 m, 21.06.2014, H. Yıldırım 2936 (holotype: DUOF, isotypes: EGE, NGBB).

Tulipa L. (8:302)

eT. cinnabarina** K.Perss. subsp. **toprakii** Yıldırım & Eker in PhytoKeys 69: 65–70 (2016) [Eker et al. 2016]

Type: Turkey. Muğla: Milas, on the road of Milas to Akgedik Dam, near Yusufça Village, open slopes and in olive orchard, 457 m, 37°20'7"N; 27°52'6"E, 02 April 2016, H.Yıldırım 3750 & Y. Altıoğlu (holotype EGE, isotypes AIBU, NGBB).

ORCHIDACEAE

Ophrys L. (8:476)

***O. apollonae** Paulus & M. Hirth in J. Eur. Orch. 41(3-4): 647 (2009). [Bozkurt and Yıldırım 2015]

Examined specimens: Türkiye. İzmir: Çeşme, deniz kenarı yamaçlarda Frigana içleri, 13.02.2013, H. Yıldırım 2204 & N. Bozkurt (EGE). Muğla: Datça, eski Datça mevkii, çayır alanlar, 01.02.2015, N. Bozkurt (EGE).

Acknowledgements

We would like to thank the following researchers; İsa Başköse, Ebru Doğan Güner, Ergin Hamzaoğlu, Serdar Makbul, Mehmet Ufuk Özbek, Mehmet Tekin, Osman Tugay, Mehmet Erkan Uzunhisarcıklı, Ahmet Emre Yaprak, Hasan Yıldırım, Kemal Yıldız who kindly sent us publications about new Turkish flora.

Conflict of Interest: The authors have no conflict of interest to declare.

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