

## **Check-list of additional taxa to the supplement flora of Turkey VII**

**Neriman Özhatay, Şükran Kültür\*, Bahar Gürdal**

Department of Pharmaceutical Botany, Faculty of Pharmacy, İstanbul University,  
İstanbul, Turkey

**Abstract:** The seventh check-list of the series entitled “Check-list of Additional taxa to the Flora of Turkey” comprises a total of 99 taxa based on the data given in 54 papers published the period between November 2013-December 2014. Additionally taxa which have not been recorded neither in the 11 volumes of the Flora of Turkey nor in the six previously published supplementary check-lists. With this paper the following are added to the Turkish flora: 78 taxa new to science and 21 taxa new records.

**Key words:** Additional taxa, Turkish flora, new species

### **Introduction**

Turkey is one of the most important temperature 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). Collectively the 11 volumes describe 8796 species from Turkey (excluding an additional 192 species confined to the East Aegean Islands Lying within Greece). The flora of Turkey continues to grow following publication of the 11th volume, and an additional 1040

\*Correspondence: s\_kultur@istanbul.edu.tr

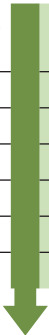
new species were added either as a new species or new records in the periods up to December 2014. These check list have been published in a series paper by N. Özhatay et al. as Check list III, IV, V, VI and VII (Özhatay & Kültür, 2006; Özhatay et al., 2009; 2011; 2013).

Since 2000 (vol. 11) nearly 720 papers regarding the flora of Turkey have been published and 1040 additional taxa have been recorded which were either new to science (761 taxa) or new to the Turkish flora (279 taxa). 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, Istanbul University. The aim of this paper is to present all published taxa added to the flora of Turkey during 2013 to 2014 with the missing records in earlier check-lists. Since 1994 have been published seven check-list of additional taxa to the Turkish flora respectively (Table 1).


The present list contains a total of 99 taxa, of which 78 taxa were added as new taxa to science (comprising 76 species, 1 subspecies and 1 hybrid), whilst a further 21 known taxa have previously been unrecorded from Turkey (19 species, 2 subspecies). Additionally two families is added as a new family for Turkish flora and three genus are added, one of this is new for science and others are new for Turkish flora.

**Table 1.** Statistical table of summary data of additional taxa for the checklists (N: new taxa for science, R: new record for Turkey). (N: 994, R: 380, Total: 1373).

	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 (2014)	
	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
Subsp	16	8	26	4	12	16	23	13	20	4	29	5	1	2
Var.	11	2	5	4	15	13	9	1	9	3	8	4	-	-
Hyb.	1	-	1	1	8	2	3	-	1	-	8	1	1	-
<b>Total</b>	<b>124</b>	<b>46</b>	<b>109</b>	<b>51</b>	<b>189</b>	<b>106</b>	<b>120</b>	<b>54</b>	<b>188</b>	<b>60</b>	<b>186</b>	<b>42</b>	<b>78</b>	<b>21</b>



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



Türkiye Bitkileri Listesi (2012)  
based on Check-list III, IV & V

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 2014. 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.

### The list of additional taxa

Abbreviation: e = endemic species; \* = new record for Turkish flora; \*\*= new taxon for science; □ new family for Turkish flora; ■ = new genus for Turkish flora; ■■ = new genus for science.

## DICOTYLEDONES

### ARISTOLOCHIACEAE

#### *Aristolochia* L. (7: 552)

e\*\**A. adalica* Tosunoglu & Malyer, in Ann Bot Fennici 51:161-166 (2014). [Tosunoglu & Malyer, 2014]

**Holotype:** Turkey. C2 Antalya: Kumluca: Rhodiopolis Ancient Site, 36 23 34 N, 30 15 50 E, alt. 146 m, a.s.l. 28 Mar. 2008 A. Tosunoglu & H. Malyer 34444 (BULU).

### BORAGINACEAE

#### *Alkanna* Tausch (6: 414)

e\*\**A. malatyana* Şenol & Yıldırım, in Phytotaxa 164(2):124-132 (2014). [Yıldırım & Şenol, 2014]

**Type:** Turkey. B7 Malatya: Akçadağ district, on calcareous rocky cliffs, 1320 m, 18 May 2011, H. Yıldırım 1801 (holotype: EGE; isotypes: EGE, GAZI, ANK, ISTF).

e\*\* *A. sumbulii* Yıld., in Ot 20 (2):1-10 (2013). [Yıldırım, 2013]

**Type:** Turkey. B3 Eskişehir: Sivrihisar, Aşağıkepen köyü yakını, jipsli

ve kireçli yerler, bozkır, tepe, bayır, c. 1000 m, 18.05.2013, Ş. Yıldırımli 38873 & H. Işıl Yıldırımli (holo. YILDIRIMLI Otluk'u; iso. HUB).

### CAMPANULACEAE

#### **Campanula** L. (6: 2)

e\*\**C. alisan-kilincii* Yıldırım & Şenol, in Turk J Bot 38: 22-30 (2014) [Yıldırım & Şenol, 2014]

**Type:** Turkey, B7 Malatya: Levent Canyon in Akçadağ district, near Çatak village, on calcareous rocks, 1400–1650 m, 30.06.2010, H.Yıldırım 1747 (holotype: EGE; isotypes: EGE, HUB, ISTF, Yıldırımli Herb.).

### CAPRIFOLIACEAE

#### **Cephalaria** Schrader ex Roemer & Schultes (4: 585)

e\*\**C. demirizii* Göktürk & Sümbül in Turk.J.Bot 38: 927-968 (2014) [Göktürk & Sümbül, 2014]

**Type:** Turkey. B8 Diyarbakır: Hazro district, Uzunargıt village, Anbarsırtı, around Değirmen, stream sides and rocky places, 900 m, 31.7.2002, R.S. Göktürk 5038 & M. Göktürk (holo. Akdeniz Univ. Herb., GAZI; iso. ANK, HUB).

### CARYOPHYLLACEAE

#### **Arenaria** L. (2: 17)

e\*\**A. microcalyx* M. Koç & Hamzaoğlu, in Turk J Bot 38:653- 657 (2014). [Koç et al., 2014]

**Type:** Turkey. C2 Antalya: Between Kaş and Finike, 32nd km, rocky, open field, under *Quercus* sp. and *Arbutus* sp., 620 m, 30.5.1988, N.& E. Özhatay s.n. (holotype: ISTE-58673, isotypes: Bozok Univ. Herb., ANK, GAZI).

#### **Dianthus** L. (2: 99)

e\*\**D. aculeatus* Hamzaoğlu in Biological Diversity and Conservation 7/2: 159-162 (2014). [Hamzaoğlu et al., 2014]

**Type:** Turkey. Afyonkarahisar: Between Bayat and İscehisar, Köroğlu Pass, 1500 m, rocky igneous slopes with tuff gravels and shrub opening,

16 june 2013, Hamzaoğlu 6744, A. Aksoy & M. Koç (holotype: GAZI; isotypes: GAZI, ANK, HUB).

**Herniaria** L. (2: 245)

\**H. caucasica* Rupr., Fl. Caucasi, 241 (1869). [Koç & Hamzaoğlu, 2014]

**Type:** Caucasus oriental, in Mount Borbalo, 1500 m, 9.1860, Ruprecht s.n. (LE).

**Examined specimens:** Turkey. B9 Van: Bahçesaray, Karapet Pass, 38 08 N 42 56 E, 2650 m, alpine meadows, 24.7.2013, Hamzaoğlu 6929 & M. Koç (GAZI, Bozok Univ. Herb.)

CELASRACEAE

**Euonymus** L. (2: 550)

\**E. leiophloeus* Stev.in Bull. Soc. Imp. Naturalistes Moscou 29(2): 122 (1856). [Eminağaoğlu & Özcan, 2013]

**Examined specimen:** Turkey: A8 Artvin, Şavşat, Ilıca village, in forest, 1533 m, 03.08.2011, Ö. Emin. 8750; A8 Artvin, Şavşat, Yeşilce village, in forest, 1443 m, 04.08.2011, Ö. Emin. 8752; A8 Artvin, Şavşat, Eskikale village, in forest, 1885 m, 05.08.2011, Ö. Emin. 8754; A8 Artvin, Şavşat, Aşağıkoyunlu village, in forest, 1764 m, 13.08.2011, Ö. Emin.8760.

COMPOSITAE

**Carduus** L. (5: 420)

\**C. transcaspicus* Gand. subsp. *macrocephalus* (Arènes) Kazmi, in Mitt. Bot. Staatssamml. München 5: 405 (1964) [Köstekci & Arabacı, 2013]

**Examined material:** B9 Van: 4 km from Gevaş to Van, 1640 m, grassland, 05.vii.2012, T. Arabacı 2745 & S. Köstekci (INU).

**Centaurea** L. (5: 465)

e\*\**C. ayugiana* Bancheva, Kaya & Binzet, in Novon 23:133-138 (2014). [Bancheva et al., 2014]

**Type:** Turkey. A4 Karabük: along rd. Betw. Bartın & Karabük, 8 km after Ovacuma village, 41 23 537 N, 32 43 303 E, 641 m, 1 Aug. 2007, S. Bancheva & Z. Kaya 86052 (holotype, ISTE; isotypes, ISTE, SOM- 165551).

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

**Examined specimens:** C6 Gaziantep: between Gaziantep-Kilis, after Şahinbey 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 Şahinbey 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).

**Gundelia** L. (5: 325)

e\*\**G. dersim* Vitek, Yüce & Ergin, in Phytotaxa 161(2):130-138 (2014). [Vitek et al., 2014]

**Type:** Turkey. Tunceli (Dersim): Ovacık, c. 11.7 km WWSW Ovacık, 1.9 km ENE Ziyaret (fountains of river Munzur), 13 m s.n., 39 20 16 N 39 457 E, 12.06.2013, Ernst Vitek, Ebru Yüce, Cemil Ergin & Hasan Hüseyin Makal 13-0030 (holotype W 2013-0006146, isotypes Tunceli University, HUB, ISTE, E, G, US).

e\*\**G. munzuriensis* Vitek, Yüce & Ergin, in Phytotaxa 161(2):130-138 (2014). [Vitek et al., 2014]

**Type:** Turkey. Tunceli (Dersim): Ovacık, c. 11.7 km WWSW Ovacık, 1275 m s.m., 39 21 19 N 39 11 29 E, 12.6.2013, Ernst Vitek, Ebru Yüce, Cemil Ergin & Hasan Hüseyin Makal 13-0025 (holotype W 2013-0006270 (inflorescence) and W 2013-0006269 (additional leaf), isotypes Tunceli University, HUB, INU, ISTE, B, E, G, L, US).

**Jurinea** Cass. (5: 439)

e\*\**J. kemahensis* B.Dogan, Kandemir & A.Duran, in Ann. Bot. Fennici 51: 75-79 (2014) [Doğan et. al., 2014]

**Type:** B7 Erzincan: Kemah, Munzur mountain, calcareous crevices, 2050 m a.s.l., (UTM) 37.488804E, 47.71431 N, 30.7.212, Kandemir 10200 & E. Osma (holotype KNYA; isotypes GAZI, ANK, ISTE, NGBB)

**Klasea** Cass.

e\*\**K. serratuloides* (DC.) Greuter & Wagenitz subsp. *karamanica* B. Doğan & A. Dogan & A. Duran in Nordic J of Bot. 32: 479-484 (2014). [Dogan et al., 2014]

**Type:** Turkey. C4 Karaman: Ayrancı, Çatköy to Ayrancı, 4 km, 1600 m a.s.l., 37 12 229 N, 033 51 621 E, 6 Sep. 2011, B. Doğan 2375 and A. Duran (holotype: KNYA, isotype: GAZI).

**Onopordum** L. (5: 356)

e\*\**O. hasankeyfense* Pınar & Behçet, in Turk J Bot (2014) 38: 226-233 [Pınar & Behçet, 2014]

**Type:** Turkey. C8 Batman: Hasankeyf castle, 510 m, rocky slopes, 30.vi.2011, 37°42'443"N, 41°24'396"E, M.Pınar 3109 (holotype: VANF, isotypes: GAZI, ANK, Bingöl Univ. Herb.).

**Rhaponcoides** Vall. (Previously Centaurea)

e\*\**R. gokceoglui* Çinbilgel, Eren & H. Duman H., in Phytotaxa 170 (2):125-132 (2014). [Çinbilgel et al., 2014]

**Type:** Turkey. C3 Antalya: İbradı, ascent to Melik Yayla above Başlar Village, Suçukan mevkii, open Pinus nigra forest, limestone, 37°14'441"N, 31°24'305"E, alt. 1186 m a.s.l., 3.vii.2011, Çinbilgel 8021 & Eren (holotype GAZI, isotypes AYDN, Herbarium of Akdeniz University).

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

**Examined specimens:** 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).

**Taraxacum** Wiggers (5: 788)

e\*\* *T. rupicolum* Yıldırım, in Bağbahçe Bilim Dergisi, 1(3)2014:72-81 [Yıldırım, 2014]

**Type:** Turkey. Malatya: Darende, Darende Kanyonu, kalker kayalık uçurumlar, 1060 m, 10.ix.2009, H.Yıldırım 2207 (holotype: EGE, isotype: EGE, ANK, NGBB).

**Tragopogon** L. (5: 657)

e\*\* *T. anatolicus* A. Duran, B. Doğan & Coşkunç in Phytotaxa 167 (3) : 235-244 (2014). [ Doğan et al., 2014]

**Type:** Turkey. C10 Hakkari: Cilo mountain, between Kırıkdağ and Cehennem stre.s.l., 07.08.2009, A. Duran 8688 & B. Doğan ( holotype: KNYA; isotypes: ANK, KTUB).

### CRUCIFERAE

**Lepidium** L. (1: 279)

\**L. didymum* L., in Syst. Nat., ed. 12, 2: 433. 1767 [Yüzbaşıoğlu & Keskin, 2013]

**Examined specimens:** Turkey. NE Anatolia, A8 Artvin, Hopa: from Hopa to Sarp, rocky place, 1 m, 01.08.2003, M. Keskin 2980 (ISTE 98883).

### LEGUMINOSAE

**Lathyrus** L. (3: 328)

e\*\* *L. cirpicii* F. Güneş, in Pensee Journal Vol 76, No. 3;Mar 2014 [Güneş, 2014]

**Type:** Turkey. C6 Hatay: Küçükaraçay, road and field sides, 50–110m, 19 April 2009, Güneş 2016. (holotype ISTE, isotype MUFE, HUB, NGBB).

■ **Vuralia Uysal & Ertugrul** in Plant Syst Evol 300: 1627-1637 (2014). [ Uysal et al., 2014]

**V. turcica** (Kit Tan et al.) Uysal & Ertugrul comb. nov. = *Thermopsis turcica* Kit Tan, Vural & Küçük. Notes Roy. Bot. Gard. Edinburgh 40(3): 515. 1983.

**Type:** Turkey: B3 Konya: W. Of Akşehir Gölü, Gölçayır (Ysiyan), c. 1000 m, 14.v.1982, M. Küçüködük 19 (holo. ANK, iso. E, EGE, KNYA).

### □ MARTYNIACEAE

■ **Ibicella** Van Eselt

\**I. lutea* (Lindl.) Van Eselt. in New York Agric. Exp. Sta. Techn. Bull. 149: 34. 1929. [Pirhan & Yıldırım, 2014]



**Examined material:** Turkey. B1 İzmir: Aliğa-Karakuzu köyü, yol kenarı tahrip edilmiş alanlar, 228 m, 02.07.2014, A.F. Pirhan 2262 (EGE 42045), ibid, 18.07.2014, A. F.Pirhan 2264.

### ONAGRACEAE

**Oenothera** L. (4: 191)

\****O. parodiana*** Munz, in Physis 11: 283(1933). [Yüzbaşıoğlu, 2014]

Syn.: *O. parodiana* subsp. *brasillensis* W. Dietr., *O. parodiana* subsp. *strigulosa* W. Dietr.

**Typus:** Argentina, Prov. Buenos Aires, meadows of El Socorro, Pergamino, 8 Dec. 1926, L. R. Parodi 7395 (holotype: GH, isotype: W).

**Examined specimen:** Turkey. A2 (E) İstanbul, Çatalca, Karacaköy-Karamandere, along river, sandy soil, 30 m, 29.06.2013, S. Yüzbaşıoğlu 3862 (ISTE 101184); ibid., 13.07.2013, S. Yüzbaşıoğlu 3873 (ISTE 101195).

### OROBANCHACEAE

**Orobanche** L. (7: 3)

e\*\****O. turcica*** G.Zare & Dönmez, in Phytotaxa 184(3): 148-154 (2014). [Zare & Dönmez, 2014]

**Type:** Turkey. Kahramanmaraş: distr. Göksun, Höbek mountain, 2000 m, on *Salvia*, 21.6.1952, Davis 20192-Dodds & Çetik (holotype E, isotypes BM, K, ANK)

### PAEONIACEAE

**Paeonia** L. (1: 204)

e\*\****P. × kayae*** N. Özhatay in Türk. Geofitleri 3: 547 (2014). [Demirci et al., 2014]

**Type:** Turkey. B1 Çanakkale: Yenice, Kalkım, Aşağıçavuş köyü, Mursel mevkii, 15.vi.2005, E.Kaya 1703, (ISTE 84 834 holotype).

### PLUMBAGINACEAE

**Acantholimon** L. (7: 478)

e\*\****A. riyatguellii*** Yıldırım, in Phytotaxa 175 (2):73-84 (2014). [Yıldırım & Crespo, 2014]

**Type:** Turkey. B3 Eskişehir: Sivrihisar, on gypsum soil slopes, 910 m a.s.l., 22 June 2013, Yıldırım 2735 (holotype: EGE-41912; isotypes: EGE-41913, ANK, GAZI).

### POLYGONACEAE

**Rumex** L. (2: 281)

\***R. cyprius** Murb., Acta Univ. Lund. N.s., 2(14):20(1907). [Koç & Hamzaoğlu, 2014]

**Type:** Cyprus, collector s.n. (Hb?).

**Examined specimens:** Turkey. C4 Mersin: Gülnar, Büyükeceli village, Beşparmak island, 36 07 N 33 31 E, 30 m, 28.5.2011, Hamzaoğlu 6089 (GAZI, Bozok Univ. Herb.)

### □ PONTEDERIACEAE

#### ■ **Eichhornia** Kunth

\***E. crassipes** (Mart.) Solms in A.L.P.de Candolle & A.C.P.de Candolle (eds.), Monogr. Phan. 4: 527 (1883). [Uremis et al., 2014]

**Observed specimens:** Turkey. C6 Hatay: Altınözü, Asi river, which runs from Lebanon through Syria to Turkey.

### RESEDACEAE

**Reseda** L. (1: 499)

e\*\***R. malatyana** Yıldırım & Şenol, in Turk J Bot 38:1013-1021 (2014). [Yıldırım & Şenol, 2014]

**Type:** Turkey. B7 Malatya: Akçadağ district, Levent Canyon, on marlstone rocky cliffs 1320 m, 18.05.2011, H. Yıldırım 1803 (holotype: EGE, isotypes: EGE, ANK, GAZI).

### ROSACEAE

**Crataegus** L. (4: 133)

\***C. pseudoazarolus** Popov, Trudy po Prikladnoi Botanike 22: 442 (1929). [Dönmez, 2014]

**Examined specimens:** Turkey. Şırnak, Günyüzü village, c.1700 m, 29.v.2002, A.A. Dönmez 10759- B. Mutlu (flowering material);

Beytüşşebap, below Başaran village, road side, 1146 m, 37°28'328"N, 38°08'488"E, 27.ix.2002, A.A. Dönmez 11140 (fruting material).

\**C. pseudoheterophylla* subsp. *turcomanica* (Pojark.) K.I.Chr., Revision of *Crataegus* sect. *Crataegus* and Nothosect. *Crataeguineae* (Rosaceae-Maloideae) in the Old World, Systematic Botany Monographs 35: 98 (1992).[Dönmez, 2014]

**Examined specimens:** Turkey. Bolu, 10 km from Seben to Bolu, steppe, 1183 m, 18.v.2002, A.A. Dönmez 10615 (HUB). Ankara, Beypazarı, Karagöl, around the lake, 1430 m, 25.viii.2001, A.A. Dönmez 10018 (HUB); Nallıhan, 1 km from Adapazarı to Seben road junction, Paliurus scrub, steppe, 710 m, 24.viii.2001, A.A. Dönmez 10002, 10003 (HUB).

**Potentilla** L. (4: 41)

\**P. multifida* L., Sp. Pl. I:496 (1753). [Koç & Hamzaoğlu, 2014]

Lectotype (Sojak, 1988): in Siberia, collector s.n. (LINN-655.6).

**Examined specimens:** Turkey: B5 Kayseri: Mount Erciyes, 38 31 N 35 29 E, 3170 m, 20.8.2013, Hamzaoğlu 6873 & M. Koç (GAZI, Bozok Univ. Herb.)

## SCROPHULARIACEAE

**Verbascum** L. (6: 461)

e\*\**V. duzgunbabadagensis* Karavel. & E. Yüce in Phytotaxa 181 (1):47-53 (2014). [Karavelioğulları et al., 2014]

**Type:** Turkey. B7 Tunceli: Nazimiye, Düzgün Baba Mountain, 39°07'41"N/ 39°46'16"E, 1800-2050 m, 31.v.2012, E. Yüce 2230 (holotype, GAZI, isotype, ANK)

**Veronica** L. (6: 689)

e\*\**V. ozturkii* Yıld. in Ot 20 (2):1-10 (2013). [Yıldırım, 2013]

**Type:** Turkey. B3 Eskişehir: Sivrihisar, Aşağıkepen köyü yakını, jipsli ve kireçli yerler, bozkır, tepe, bayır, c. 1000 m, 18.05.2013, Ş. Yıldırım 38901 & H. Işıl Yıldırım (holotype YILDIRIMLI Otluk'u; isotype HUB).

**UMBELLIFERAE****Bunium** L. (4: 342)e\*\* *B. sayai* Yıld. in Ot 20 (1):1-12 (2013). [Yıldırım, 2013]**Type:** Turkey. C9 Hakkari: Depin, Sümbül çayı kıyısı, harlalar (bahçeler) ve tarlalar, ağaçlık, 1300 m, 14.06.2009, Ş. Yıldırım 36075 (holotype YILDIRIMLI Otluk'u; isotype HUB)**Eryngium** L. (4: 292)e\*\* *E. erzincanicum* Yıld., in Ot 20 (1):1-12 (2013). [Yıldırım, 2013]**Type:** Turkey. B7 Erzincan: Merkez Yaylabaşı (Kiy) köyü, Kazankaya dağı, Munzur dağları, Çekem tepesi ve Şenk deresi, 1500-2300 m, 07.08.1980, Ş. Yıldırım 3837 (holotype YILDIRIMLI Otluk'u)**MONOCOTYLEDONS****IRIDACEAE****Crocus** L. (8: 413)e\*\* *C. abracteolus* Kerndorff & Pasche in Stapfia 99: 145–158 (2013). [Kerndorff et al., 2013]**Holotypus:** Turkey, Cilician Taurus, Mersin Province, Bolkar Dağları, 2100-2400 m, 19.3.2010, HKEP 1040 (Gatersleben, GAT 7169).e\*\* *C. antherotes* Kerndorff & Pasche in Stapfia 99: 145–158 (2013). [Kerndorff et al., 2013]**Holotypus:** Turkey, Caria, Muğla Province, Madranbaba Dağları, 1500-1800 m, 27.3.2002, HKEP 0209 (Gatersleben, GAT 23072).e\*\* *C. arizelus* Kerndorff & Pasche in Stapfia 99: 145–158 (2013). [Kerndorff et al., 2013]**Holotypus:** Turkey, Caria, Muğla Province, Gölgeli Dağları, 1300-1600 m, 16.3.2004, HKEP 0403 (Gatersleben, GAT 7153).e\*\* *C. berytius* Kerndorff & Pasche in Stapfia 99: 159–186 (2013). [Kerndorff et al., 2013a]**Holotypus:** Turkey, Antitaurus, Kahramanmaraş Province, Berit Dağı 1900-2300 m, 04.05.2005, HKEP 0524 (Gatersleben, GAT 7382).

- e\*\**C. brickellii* Ruksans in International Rock Gardener Number 52 (2014). ). [Ruksans, 2014]  
**Typus:** Turkey, Antalya province, S end of Ak Dağları. 03-03-2012 (12TUS-020). Holo: GB.
- e\*\**C. calanthus* Kerndorff & Pasche in Stapfia 99: 145–158 (2013). [Kerndorff et al., 2013]  
**Holotypus:** Turkey, Lycian Taurus, Antalya Province, Ak Dağlar, 1200-1400 m, 9.3.2001, HKEP 0123 (Gatersleben, GAT 7149).
- e\*\**C. coloreus* Kerndorff & Pasche in Stapfia 99: 145–158 (2013). [Kerndorff et al., 2013]  
**Holotypus:** Turkey, Caria, İzmir Province, Aydın Dağları, 900-1000 m, 14.3.2003, HKEP 0314 (Gatersleben, GAT 23075).
- e\*\**C. henrikii* Ruksans in International Rock Gardener Number 52 (2014). ). [ Ruksans, 2014]  
**Typus:** Turkey, near Gündoğmuş (Antalya province), 04-03-2012 (12 TUS-022). Holo: GB.
- e\*\**C. incognitus* Kerndorff & Pasche in Stapfia 99: 145–158 (2013). [Kerndorff et al., 2013]  
**Holotypus:** Turkey, Caria, İzmir Province, Boz Dağlar, 800-900 m, 12.3.2001, HKEP 0201 (Gatersleben, GAT 7465).
- e\*\**C. kangalensis* Kerndorff & Pasche in Stapfia 99: 159–186 (2013). [Kerndorff et al., 2013a]  
**Holotypus:** Turkey, Cappadocia, Sivas Province, environs of Kangal 1400 m, 28.3.1999, HKEP 9923 (Gatersleben, GAT 7390).
- e\*\**C. karamanensis* Kerndorff & Pasche in Stapfia 99: 145–158 (2013). [Kerndorff et al., 2013]  
**Holotypus:** Turkey, Isaurian Taurus, Karaman Province, central Taurus, 1500-1600 m, 5.3.2001, HKEP 0108 (Gatersleben, GAT 23070).
- e\*\**C. kartaldagensis* Kerndorff & Pasche in Stapfia 99: 159–186 (2013). [Kerndorff et al., 2013a]  
**Holotypus:** Turkey, Mesopotamia, Gaziantep Province, west of

Gaziantep in the foothills of the Kartal Dağı 900-1100 m, 15.3.2005, HKEP 0101 (Gatersleben, GAT 7448).

e\*\**C. lyciotauricus* Kerndorff & Pasche in Stapfia 99: 145–158 (2013). [Kerndorff et al., 2013]

**Holotypus:** Turkey, Lycian Taurus, Antalya Province, southern coastal mountains, 1000-1200 m, 8.3.1998, HKEP 9804 (Gatersleben, GAT 7193).

e\*\**C. malatyensis* Kerndorff & Pasche in Stapfia 99: 159–186 (2013). [Kerndorff et al., 2013a]

**Holotypus:** Turkey, Mesopotamia, Malatya Province, Maden Dağları 900-1100 m, 17.3.2005, HKEP 9914 (Gatersleben, GAT 23075).

e\*\**C. marasensis* Kerndorff & Pasche in Stapfia 99: 159–186 (2013). [Kerndorff et al., 2013a]

**Holotypus:** Turkey, Amanus, Kahramanmaraş Province, environs of Kahramanmaraş 900-1100 m, 18.3.2005, HKEP 0504 (Gatersleben, GAT 7132).

e\*\**C. mawii* Kerndorff & Pasche in Stapfia 99: 145–158 (2013). [Kerndorff et al., 2013]

**Holotypus:** Turkey, Pisidian Taurus, Konya Province, Kuyucak Dağı, 1600-1700 m, 25.3.2013, HKEP 0413 (Gatersleben, GAT 7130).

e\*\**C. mediotauricus* Kerndorff & Pasche in Stapfia 99: 145–158 (2013). [Kerndorff et al., 2013]

**Holotypus:** Turkey, Pisidian Taurus, Antalya Province, Geyik Dağları, 1600-1900 m, 18.3.2001, HKEP 0112 (Gatersleben, GAT 7247).

e\*\**C. muglaensis* Ruksans in International Rock Gardener Number 52 (2014). [Ruksans, 2014]

**Typus:** Turkey, Prov. Muğla, 30 km before Kale along rd. Muğla to Kale, alt. 940 m, 09.03.2008 (R2CV-027). Holo: GB

e\*\**C. multicostatus* Kerndorff & Pasche in Stapfia 99: 145–158 (2013). [Kerndorff et al., 2013]

**Holotypus:** Turkey, Caria, İzmir Province, Boz Dağlar, 1200-1400 m, 20.3.2004, HKEP 0401 (Gatersleben, GAT 7379).

e\*\**C. munzurensis* Kerndorff & Pasche in Stapfia 99: 159–186 (2013).  
[Kerndorff et al., 2013a]

**Holotypus:** Turkey, Upper Euphrates, Erzincan Province, Munzur Dağları 900-1200 m, 16.3.2005, HKEP 9347 (Gatersleben, GAT 7190).

e\*\**C. oreogenus* Kerndorff & Pasche in Stapfia 99: 145–158 (2013).  
[Kerndorff et al., 2013]

**Holotypus:** Turkey, Lycian Taurus, Bey Dağları, 1500-1800 m, 12.3.2001, HKEP 0126 (Gatersleben, GAT 7127).

e\*\**C. pelitensis* Kerndorff & Pasche in Stapfia 99: 159–186 (2013).  
[Kerndorff et al., 2013a]

**Holotypus:** Turkey, Antitaurus, Adana Province, Karanfil Dağı, 900-1100 m, 20.3.2005, HKEP 0508 (Gatersleben, GAT 23076).

e\*\**C. pestalozzae* subsp. *violaceus* Yüzb. & Özhatay in Phytotaxa 174 (5): 279-284 (2014). [Yüzbaşıoğlu & Özhatay, 2014]

**Type:** Turkey. A2(A) Yalova: Çınarcık, Delmece plateau, 700 m, moist meadows, 28 March 2004, Yüzbaşıoğlu 2466 (holotype: ISTE 96939, isotypes: ANK, NGBB).

e\*\**C. ponticus* Kerndorff & Pasche in Stapfia 99: 159–186 (2013).  
[Kerndorff et al., 2013a]

**Holotypus:** Turkey, Lazistan, Rize Province, Gül Dağı 1900-2100 m, 20.3.2006, HKEP 0621 (Gatersleben, GAT 7134).

e\*\**C. romuleoides* Kerndorff & Pasche in Stapfia 99: 159–186 (2013).  
[Kerndorff et al., 2013a]

**Holotypus:** Turkey, Mesopotamia, Adıyaman Province, Güz Dağı 900-1200 m, 15.3.2005, HKEP 0501 (Gatersleben, GAT 7381).

e\*\**C. schneideri* Kerndorff & Pasche in Stapfia 99: 159–186 (2013).  
[Kerndorff et al., 2013a]

**Holotypus:** Turkey, Cappadocia, Kayseri Province, Tahtalı Dağları 2000-2300 m, 3.5.2005, HKEP 0514 (Gatersleben, GAT 7240).

e\*\**C. sivasensis* Kerndorff & Pasche in Stapfia 99: 159–186 (2013).  
[Kerndorff et al., 2013a]

**Holotypus:** Turkey, Cappadocia, Sivas Province, SE of Sivas 1500-1800 m, 28.5.1999, HKEP 9927 (Gatersleben, GAT 7391).

e\*\* *C. striatulus* Kerndorff & Pasche, in Stapfia 99: 141–144 (2013) [Kerndorff et al., 2013]

**Holotypus:** Turkey, Lazistan, Giresun Province, Giresun Dağları, 1900-2200 m, 20.03.2010, HKEP 1030 (Gatersleben, GAT 7388).

e\*\* *C. tahtaliensis* Kerndorff & Pasche in Stapfia 99: 145–158 (2013). [Kerndorff et al., 2013]

**Holotypus:** Turkey, Lycian Taurus, Antalya Province, Tahtalı Dağı, 1400-1500 m, 13.3.1997, HKEP 9716 (Gatersleben, GAT 7446).

e\*\* *C. uschakensis* Ruksans in International Rock Gardener Number 52 (2014). [Ruksans, 2014]

**Typus:** Turkey, low mountains N of Uşak, 25-02-2011 (TULA-020). Holo: GB.

e\*\* *C. yaseminiae* O. Erol, in Phytotaxa 188(2): 103-111 (2014). [Erol et al., 2014]

**Type:** Turkey. North of Alanya, open areas in Juniperus wood 1623 m, 21.2.2014, O. Erol SF 86 (holotype ISTF 40105).

e\*\* *C. ziyaretensis* Kerndorff & Pasche in Stapfia 99: 145–158 (2013). [Kerndorff et al., 2013]

**Holotypus:** Turkey, Lycian Taurus, Antalya Province, Ziyaret Dağları, 1300-1600 m, 13.3.1998, HKEP 9820 (Gatersleben, GAT 23080).

**Iris** L. (8: 382)

\**I. foetidissima* L., Sp. Pl. 39 (1753). [Dönmez & Uğurlu, 2014]

**Examined specimens:** Turkey: A5 Sinop: Ayancık, around Mutluköy road junction, under *Platanus orientalis* L., around a stream, 222 m a.s.l., 41°56'804"K, 034°31'468"D, 26.10.2009, Ali A. Dönmez 16540 (HUB); 14.05.2010, Ali A. Dönmez 16802-Z. Uğurlu (HUB); 04.07.2010, Ali A. Dönmez 17278-Z. Uğurlu (HUB); 14.06.2011, Ali A. Dönmez 17741-Z. Uğurlu (HUB). İstanbul: Yıldız Parkı, 20.05.1969, T. Gözler (ISTE No: 15160); 21.05. 1970, N. Özocak, G. Etem, F. Öktem



(ISTE No: 18000); 24.05.1971, *T. Gözler* (ISTE No: 20530); 30.10.1977, *A. Baytop* (ISTE No: 41503).

**Gladiolus** L. (8: 441)

e\*\**G. osmaniyensis* Sağıroğlu, in Turk J Bot 38: 31-36 (2014) [Sağıroğlu & Akgül, 2014]

**Type:** Turkey, C6 Osmaniye: between Yarpuz and Yağlıpınar, 1250–1300 m, under mixed forest, shady slopes, 11.06.2005, M.Sağıroğlu 2556 & G.Akgül (holotype: GAZI, isotype: HUB).

■ **Sisyrinchium** L.

\**S. angustifolium* Mill. Gard. Dict., ed. 8. n. 2 (1768). [Eminağaoğlu & Özcan, 2014]

**Examined specimens:** Turkey: A8 Artvin, Hopa, Kemalpaşa, damp roadside, grassland, 20 m, 8 June 2013, 41°30'30"N, 41°32'16"E, Ö. Emin. 15855 (ARTH 5248); Artvin, Hopa, Hopa to Borçka roadside, gravelly soil, 270 m, 21 June 2013, 41°23'42"N, 41°29'54"E, Ö. Emin. 16948 (ARTH 5249); Artvin, Hopa, Kemalpaşa, damp roadside, grassland, 3 m, 8 May 2014,

41°30'16"N, 41°32'07"E, Ö. Emin. 19361 (ARTH 5266).

**GRAMINEAE**

**Sclerochloa** P. Beauv. (9: 509)

\**S. woronowii* (Hack.) Tzvelev ex Bor in Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R. 18: 27, in obs. 1957 [Cabi et al., 2013]

**Examined specimens:** Turkey. B4 Konya: Cihanbeyli, around Tuzla, salty steppes, 957 m, 20.05.2011, E. Cabi 4064 (NGBB, CAN)

**LILIACEAE**

**Allium** L. (8:98)

\**A. aeginense* Brullo, Giusso & Terrasi, in Candollea 63: 197-203 (2008) [Koçyiğit et al., 2014]

**Type:** (Greece). Thessaly: Meteore (Kalambaka) substrati conglomeratici press oil Monastero di Megalo Meteoro, 8.vii.2004, Brullo, Bacchetta, Giusso & Guarino s.n. (holo-: CAT)

**Examined specimens:** Turkey. Antalya; Korkuteli-Fethiye yolu, Söğüt'ten 3-4 km sonra, 1436 m, E.Kaya 1509, ISTE 102754.

e\*\**A. aksekiense* N.Özhatay, M.Koyuncu & E.Kaya, in Türk. Geofitleri 3: 510 (2014) [Özhatay et al., 2014]

**Type:** Turkey. C3 Antalya; Manavgat-Akseki arası, Güçlü köy mesire alanı çevresi 768 m, 29.ıı.2012, E. Kaya 2952, çiçek açmadan toplanan ve Temmuz 2013 tarihinde bahçede açan örnekler ISTE 100217 (holotype).

\**A. brussalisii* Tzanoud. & Kypr. in Bot. J. Linn. Soc. 158: 140–146 (2008) [Koçyiğit et al., 2014].

**Type:** Greece, Prov. Attiki, Mt. Parnitha, above Acharnes, 300–600 m, rocky places among scrub in openings of *Pinus halepensis* forest, 31.viii.2005, Tzanoudakis 13501 (holotype: UPA).

**Examined specimens:** Turkey. Muğla; Kötekli Köyü, zeytinlikler, 652 m, E.Kaya 5171, ISTE 104845.

e\*\**A. efae* Özhatay & İ. Genç in Turk J Bot 38:1022-1025 (2014). [Genç & Özhatay, 2014]

**Type:** Turkey. A3 Bolu: Bolu-Kıbrısık, 34 km from Bolu, 1500 m, 08.06.1984, N. & E. Özhatay s.n. (holotype: ISTE 54188, isotype: AEF).

e\*\* *A. ekeri* E.Kaya & M.Koçyiğit in Türk. Geofitleri 3: 516 (2014) [Koçyiğit et al., 2014]

**Type:** Turkey. C7 Şanlıurfa: Germuş Köyü çevresi 629 m, cult. fl., 26.v.2014, *U.Rastgeldi 10073*, (Holotype, ISTE 102750).

e\*\**A. erzincanicum* N. Özhatay & Kandemir in Bağbahçe Bilim Dergisi 1(2): 50-58 (2014). [Özhatay & Kandemir, 2014]

**Type:** Türkiye: Erzincan: Munzur Dağları, Mercan Suyu, kalker kayalıklar (UTM) 37 S 550540D, 4374863 K, 1997 m, 08.vii.2014, Kandemir 10613 (holotype ISTE 102921, isotype NGBB).

\**A. guicciardii* Heldr., in Atti Congr. Int. Bot. Firenze 1874: 233 (1876). [Koçyiğit et al., 2014]

**Type specimen:** in m. Parnassi reg. alpina, VIII.1855, Guicciardi 2985 (G-BOISS).

**Examined specimens:** Turkey. Kastamonu; Kastamonu-Araç arası, Toygaören köyü yolu kavşağı, 871m, E. Kaya 3959, ISTE 102756.

e\*\**A. kayae* N.Özhatay & M.Koyuncu in Türk. Geofitleri 3: 511 (2014) [Özhatay et al., 2014]

**Type:** Turkey. C5 Adana: Doğanbeyli-Hanyeri ovası, Çatalcam köyüne varmadan, meşelikler arası, 22.07.2012, M.Koyuncu 16318, ISTE 104 802 (holotype).

e\*\**A. lazikkiyense* M.Koçyiğit, N.Özhatay & E.Kaya in Türk. Geofitleri 3: 515 (2014) [Koçyiğit et al., 2014]

**Type:** Turkey. B2 Denizli: Çivril, Çal-Çivril Yolu, 20. Km, Kavaklar kavşağını geçince, 859 m, cult. fl., 15.vii.2013, E.Kaya 4208, (Holotype, ISTE 102751).

e\*\**A. liliputianum* M.Koçyiğit, N.Özhatay & E.Kaya in Türk. Geofitleri 3: 519 (2014) [Koçyiğit et al., 2014]

**Type:** Turkey. B1 İzmir: Ödemiş, Bozdağ zirvesi, 2103 m, cult. fl., 26.v.2014, E.Kaya 4767, (Holotype, ISTE 102752).

e\*\**A. perpendiculum* M.Koçyiğit, N.Özhatay & E.Kaya in Türk. Geofitleri 3: 517 (2014) [Koçyiğit et al., 2014]

**Type:** Turkey. B2 Kütahya: Çavdarhisar-Gediz arası, Yunuslar yakını, 1149 m, cult. fl., 26.v.2014, E.Kaya 3490, (Holotype ISTE 102751).

\**A. pilosum* Sm. (Sect. Codonoprasum), in Sibth. & Sm., Fl. Grace. Prodr. 1: 225 (1809) [Koçyiğit et al., 2014].

**Type:** Greece: In insula Cimolo = Kimolo near Melos, Cycladi, Sibthorp (holotype: OXF).

**Examined specimens:** Turkey. Muğla; Yılanlı dağı, gözetleme kulesi çevresi, 1594 m, E. Kaya 2884, ISTE 102755.

\**A. tardiflorum* Kollmann & Shmida, in Herbertia 46 (1): 23-32 (1990). [Koçyiğit et al., 2014]

**Type:** Mt. Carmel, Neshar quarry, on chalky, disturbed soil, 6.x.1987, Cohen (holotype: HUU).

**Examined specimens:** Turkey. Muğla; Marmaris, Bayırköy-Söğütköy

arası, Bayırköy çıkışı, 345m, E.Kaya 3105, ISTE 104846; Köyceğiz, Ekincik köyü, Kargıcak çevresi, 35 m, E.Kaya 3053, ISTE 104847

**Bellevalia** Lapeyr. (8: 264)

e\*\***B. pseudolongipes** Karabacak & Yıldırım, in Phytotaxa 188(4): 209-217 (2014). [Karabacak et al., 2014]

**Type:** Turkey. B9 Siirt: Eruh, Sağırsu köyü civarı, step, 16.iv.2011, Karabacak 7974 (holotype: EGE; isotypes: GAZI, ANK)

e\*\***B. undulatifolia** N.Özhatay, B.Gürdal & E.Kaya in Türk. Geofitleri 3: 526 (2014). [Gürdal et al., 2014]

**Type:** Turkey. C3 Antalya; İbradı, Genbos Yaylası, Konya sınırı, 1209m, 31.iii.2012, E. Kaya 3284 (Holotype, ISTE 102 823).

e\*\***B. pseudofominii** N.Özhatay & E.Kaya in Türk. Geofitleri 3: 528 (2014). [Gürdal et al., 2014]

**Type:** Turkey. C7 Urfa; Karabahçe Köyü, Mezarlık çevresi, 1256 m, 13.iv.2013, U. Rastgeldi -10074 (Holotype, ISTE 102748).

**Colchicum** L. (8: 329)

e\*\***C. erdalii** N. Özhatay in Türk. Geofitleri 3: 536 (2014). [Özhatay & Kaya, 2014]

**Type:** Turkey) B7 Erzincan: Kemaliye, Sırakonak köyü karşısı, 1739 m, 20.iii.2009 E.Kaya-591, C2404, ISTE 96117 (holotype).

e\*\***C. osmaniyense** N.Özhatay et E.Kaya in Türk. Geofitleri 3: 537 (2014). [Özhatay & Kaya, 2014]

**Type:** Turkey. C6 Osmaniye: Hasanbeyli, Kemiklikayatepe Mahallesi, 876 m, 20.i.2008 E. Kaya C.8001, ISTE 104799 (holotype).

e\*\***C. marschicum** E.Kaya et N.Özhatay in Türk. Geofitleri 3: 539 (2014). [Özhatay & Kaya, 2014]

**Type:** Turkey. C6 Kahramanmaraş: Başkonuş Dağı, yangın kulesi yolu, 1516 m, 8.v.2008 tarihinde toplanarak ve geofit bahçesinde çiçek açan örnekler, E.Kaya 4609, ISTE 104800 (holotype)

**Gagea** Salisb. (8: 312)

e\*\**G. antakiensis* Kayıkçı, Ocak & Tekşen in Phytotaxa 170(4): 269-277 (2014). [Kayıkçı et al., 2014]

**Type:** Turkey. Hatay: Antakya, Serinyol, around the Serinyol-Yıldırım stream, edge of stream, open forest of *Pinus brutia*, macchie, 220 m, 4 February 2012, Ocak & Kayıkçı 1331 (holotype, OUFÉ; isotypes, GAZI, ANK).

**Muscari** L. (8: 245)

e\*\**M. artvinense* S.Demirci & E. Kaya in Türk. Geofitleri 3: 544 (2014). [Demirci et al., 2014]

**Type:** Turkey. A9 Artvin: Murgul, Korucular Köyü bahçeleri, 796 m, 06.v.2011, E.Kaya 2132, (Holotype, ISTE 99472)

\**M. kerkis* Karlén in Willdenowia 14: 89-118, (1984). [Demirci et al., 2014]

**Type:** Greece. Nom. Samos, along the path from Kalithea to Mt Kerkis, 600 m, 3.iv.1983, KE 104, Holotypus in LD.

**Examined specimens:** Turkey. B1 İzmir; Kemalpaşa, Nif Dağı, 1345m, 24.iii.2011, E. Kaya 1721, ISTE 96 650. B1 İzmir; Ödemiş, Bozdağ Beldesi- Bozdağ Kayak Merkezi yolu, 1218m, 24.v.2011, E. Kaya 2313, ISTE 96 791.

e\*\**M. ufukii* E. Kaya & S. Demirci in Türk. Geofitleri 3: 545 (2014). [Demirci et al., 2014]

**Type:** Turkey. C7 Gaziantep: Gaziantep-Nurdağı yolu, 1096 m, 7.vii.2011, E. Kaya 2471, (Holotype, ISTE 96978).

**Ornithogalum** L. (8: 227)

e\*\**O. adanense* S.Demirci & E.Kaya in Türk. Geofitleri 3: 546 (2014). [Demirci et al., 2014]

**Type:** Turkey. C5 Adana: Saimbeyli–Tufanbeyli arası, Güzelim Köyü çıkışı, 1427 m, cult. fl. 15.iv.2013, E.Kaya 4386, (Holotype, ISTE 104803).

**Puschkinia** Adams (8: 226)

e\*\**P. bilgineri* Yıldırım, in Bağbahçe Bilim Dergisi 1(1): 1-10 (2014). [Yıldırım, 2014]

**Type:** Türkiye, Van: Narlıca'dan Bahçesaray'a gidiş yolu, Karabet geçidi, Alpin dağ çayırları ve açık dağ yamaçlarında, 2885 m, 19.vi.2014, H.Yıldırım 2695 (holotype: EGE, isotype: EGE, ISTF, ANK, NGBB).

**Scilla** L. (8: 214)

e\*\***S. albinerve** Yıldırım & Gemici in Bağbahçe Bilim Dergisi 1(2): 37-49 (2014). [ Yıldırım et al., 2014]

**Type:** Hatay: Dört Yol, Amanos dağları, Kuzuculu'dan Keldaz zirvesine giden yol üzeri, Üçkoz Yaylası üstleri, 1585 m, 31.iii.2007, H. Yıldırım 1057 (holotype: EGE, isotype: EGE, ANK, NGBB).

e\*\***S. arsusiana** Yıldırım & Gemici in Bağbahçe Bilim Dergisi 1(2): 37-49 (2014). [ Yıldırım et al., 2014]

**Type:** Turkey. Hatay: İskenderun, Arsuz, Hacıahmetli köyünden radara çıkarken, serpantin çakıllı yamaçlar, 1310 m, 23.iv.2008, H. Yıldırım 1312 (holotype: EGE, isotype: EGE, ANK, NGBB).

#### Acknowledgements

We would like to thank the following researchers: Serdar Aslan, Zafer Kaya, Ergin Hamzaoğlu, Hasan Yıldırım, Ebru Yüce, Sırrı Yüzbaşıoğlu, who kindly sent us publications about new Turkish flora.

#### References

- Bancheva S, Kaya Z, Binzet R (2014). *Centaurea aytugiana* (Asteraceae), a new species from North Anatolia, Turkey. *Novon* **23**: 133-138.
- Cabi E, Doğan M, Soreng R (2013). A new record for the flora of Turkey: *Sclerochloa woronowii* (HACK.) Tzvel. ex Bor (Poaceae). *Ot Sistemik Botanik Dergisi* **20**(1): 13-22.
- Çinbilgel İ, Eren Ö, Duman H (2014). *Rhaponticoides gokceoglui* (Asteraceae), a striking new species from Turkey. *Phytotaxa* **170** (2):125-132.
- Davis P.H., Tan K, Mill R.R (1988). Flora of Turkey and the East Aegean Islands, Vol.10. University Press, Edinburgh.
- Demirci S, Özhatay N, Gürdal B, Kaya E (2014). Contributions to the Turkish Geophyte flora. In: Kaya E. *Geophytes of Turkey* Vol. 3: 543-551, Atatürk Central Horticultural Research Institute, Edition no: 96, Yalova, Turkey.
- Dogan B, Duran A, Coşkun F (2014). *Klasea serratuloides* subsp. *karamanica* subsp. nov. (Asteraceae), from the central and South Anatolia transition zone, Turkey. *Nordic Journal of Botany* **32**: 479-484.

- Doğan B, Duran A, Gültepe M, Öztürk M, Coşkunçelebi K (2014). *Tragopogon anatolicus* (Asteraceae) a new species from east Turkey. *Phytotaxa* **167** (3): 235-244.
- Dogan B, Kandemir A, Osma E, Duran A (2014). *Jurinea kemahensis* (Asteraceae), a new species from East Anatolia, Turkey. *Ann. Bot. Fennici* **51**: 75-79.
- Dönmez AA (2014). Nomenclatural, taxonomic and biogeographic novelties in the Turkish Crataegus L. (Rosaceae-Maleae) taxa. *Adansonia* **36** (2): 245-253.
- Dönmez AA, Uğurlu Z (2014). *Iris foetidissima* (Iridaceae): discovering the species in Turkey on the basis of a native population. *Phytologia Balcanica* **20**(2-3): 175-178.
- Duran A, Doğan B, Şeker M (2014). Two new records from Asteraceae for the flora of Turkey and a new synonym in the genus *Psephellus*. *Journal of Selçuk University Natural and Applied Science* **3**(4):105-112.
- Eminagaoglu Ö, Özcan M (2013). *Euonymus leiophloeus* (Celastraceae) a new record for the flora of Turkey. *Bangladesh J. Plant Taxon* **20**(2): 263-266.
- Eminağaoğlu Ö, Özcan M (2014). Systematics of *Sisyrinchium angustifolium* Mill. (Iridaceae), a newly recorded species from Turkey. *Bangladesh J. Plant Taxon* **21**(2): 175-180.
- Erol O, Can L, Küçüker O (2014). *Crocus yaseminiæ* (Iridaceae), a new species from South Anatolia, Turkey. *Phytotaxa* **188**(2): 103-111.
- Genç İ, Özhatay FN (2014). *Allium efeæ* (Amaryllidaceae) a new species from northwest Anatolia, Turkey. *Turk J Bot* **38**: 1022-1025.
- Göktürk RS, Sümbül H (2014). A taxonomic revision of the genus *Cephalaria* (Caprifoliaceae) in Turkey. *Turkish Journal of Botany* **38**: 927-968.
- Güner A, Aslan S, Ekim T, Vural M, Babaç MT. (edlr.) (2012). Türkiye Bitkileri Listesi (Damarlı Bitkiler). Nezahat Gökyiğit Botanik Bahçesi ve Flora Araştırmaları Derneği Yayını.
- Güner A., Özhatay N, Ekim T, Başer K.H.C (2000). Flora of Turkey and the East Aegean Islands, Vol.11. University Press, Edinburgh.
- Güneş F (2014). A new species of *Lathyrus* (Fabaceae) from Turkey. *Pensee Journal* Vol 76, No. 3.
- Gürdal B, Özhatay N, Koçyiğit M, Kaya E (2014). Two new species for Turkish Geophyte flora in the genus *Bellevalia*. In: Kaya E, *Geophytes of Turkey* Vol. 3: 525-531, Atatürk Central Horticultural Research Institute, Edition no: 96, Yalova, Turkey.
- Hamzaoğlu E, Koç M, Aksoy A (2014). A new priking Carnation (Caryophyllaceae) grows on tuff from Turkey: *Dianthus aculeatus* sp. nov. *Biological Diversity and Conservation* **7**/2: 159-162.
- Kandemir A, İlhan V, Korkmaz M, Karacan S (2014). *Scrophularia fatmae* (Scrophulariaceae): An anomalous new *Scrophularia* L. species from Eastern Anatolia, Turkey. *Bağbahçe Bilim Dergisi* **1**(1):11-17, E-ISSN:2148-4015.



- Karabacak O, Yıldırım H, Martin E (2014). *Bellevalia pseudolongipes* sp. nov. (Asparagaceae): a new species from southeastern Anatolia, Turkey. *Phytotaxa* **188**(4): 209-217.
- Karavelioğulları FA, Yüce E, Başer B (2014). *Verbascum duzgunbabadagensis* (Scrophulariaceae), a new species from eastern Anatolia, Turkey. *Phytotaxa* **181**(1): 47-53.
- Kayıkcı S, Ocak A, Tekşen M, Erkul S.K (2014). *Gagea antakiensis* a new species from Southern Anatolia, Turkey and the new finding of *Gagea lojaconoi* (Liliaceae). *Phytotaxa* **170** (4): 269-277.
- Kerndorff H, Pasche E, Blattner FR, Harpke D (2013). A New Species of *Crocus* (Liliiflorae, Iridaceae) from Turkey. *Stapfia* **99**: 141–144.
- Kerndorff H, Pasche E, Blattner FR, Harpke D (2013). Fourteen new species of *Crocus* (Liliiflorae, Iridaceae) from west, South-west and South-central Anatolia. *Stapfia* **99**: 145–158.
- Kerndorff H, Pasche E, Blattner FR, Harpke D (2013a). *Crocus biflorus* Miller (Liliiflorae, Iridaceae) in Anatolia — Part IV. *Stapfia* **99**: 159–186.
- Koç M, Hamzaoğlu E (2014). *Herniaria caucasica* (Caryophyllaceae), *Rumex cyprius* (Polygonaceae), and *Potentilla multifida* (Rosaceae); 3 new records for Turkey. *Turk J Bot* **38**: 819-825.
- Koç M, Hamzaoğlu E, Özhatay FN (2014). *Arenaria microcalyx* (Caryophyllaceae) a new species from Turkey. *Turk J Bot* **38**: 653-657.
- Koçyiğit M, Özhatay N, Kaya E (2014). New species and new records for *Allium* (sect. *Codonoprasum*) from Turkey. In: Kaya E. *Geophytes of Turkey* Vol. 3: 514-524, Ataturk Central Horticultural Research Institute, Edition no: 96, Yalova, Turkey.
- Köstekci S, Arabacı T (2013). A new record for the flora of Turkey: *Carduus transcaspicus* Gand. subsp. *macrocephalus* (Arènes) Kazmi. *Biodicon* **6/3**: 88-91.
- Özhatay FN, Kültür Ş, Gürdal MB (2011). Check-list of additional taxa to the Supplement Flora of Turkey IV. *Turk J Bot* **35**: 589-624.
- Özhatay N & Kültür Ş (2006). Check-list of additional taxa to the Supplement Flora of Turkey III. *Turk J Bot* **30**: 281-316.
- Özhatay N, Kandemir A (2014). *Allium erzincanicum* (sect. *Allium*): Doğu Anadolu Bölgesi'nden yeni bir Soğan (*Allium* L.) türü. *Bağbahçe Bilm Dergisi* **1**(2): 50-58.
- Özhatay N, Kaya E (2014). Three new *Colchicum* species from Anatolia. In: Kaya E. *Geophytes of Turkey* Vol. 3: 532-542, Ataturk Central Horticultural Research Institute, Edition no: 96, Yalova, Turkey.
- Özhatay N, Koyuncu M, Koçyiğit M, Kaya E (2014). *Allium aksekiense* & *Allium kayae*, (sect. *Allium*) two new species from South Anatolia (Turkey). In: Kaya E. *Geophytes of Turkey* Vol. 3: 507-513, Ataturk Central Horticultural Research Institute, Edition no: 96, Yalova, Turkey.



- Özhatay N, Kültür Ş, Aslan S (2009). Check-list of additional taxa to the Supplement Flora of Turkey IV. *Turk J Bot* **33**: 191-226.
- Özhatay N, Kültür Ş, Gürdal B (2013). Check-list of additional taxa to the Supplement Flora of Turkey VI. *J. Fac. Pharm. Istanbul* **43**(1): 33-82.
- Pınar SM, Behçet L (2014). *Onopordum hasankeyfense* (Asteraceae), a new species from south-eastern Turkey. *Turk J Bot* **38**: 226-233.
- Pirhan A F, Yıldırım H (2014). Türkiye için yeni bir istilacı tür kayıdı: *Ibicella lutea* (Lindl.) Van Eslt. (Martyniaceae). *Bağbahçe Bilim Dergisi* **1**(2): 31-36.
- Ruksans J (2014). *Crocus danfordiae* Maw and *C. chrysanthus* (Herbert) Herbert (Iridaceae) and some of their allies in Turkey and Iran. *International Rock Gardener*, Number 52, ISSN 2053-7557.
- Sağıroğlu M, Akgül G (2014). *Gladiolus osmaniensis* (Iridaceae), a new species from South Anatolia, Turkey. *Turk J Bot* **38**: 31-36.
- Schneider I (2014). *Crocus brachyfilus* (Iridaceae), a new species from southern Turkey. *Willdenowia* **44**: 45-50.
- Tosunoglu A, Malyer H (2014). *Aristolochia adalica* (Aristolochiaceae) a new species from Anatolia, Turkey *Ann. Bot. Fennici* **51**: 161-166.
- Uremis I, Uludag A, Arslan Z.F, Abaci O (2014). A new record for the flora of Turkey: *Eichhornia crassipes* (Mart.) Solms (Pontederiaceae). *Bulletin OEPP/EPPO Bulletin* **44** (1): 83–86.
- Uysal T, Ertuğrul K, Bozkurt M (2014). A new genus segregated from *Thermopsis* (Fabaceae: Papilionoideae): *Vuralia*. *Plant Syst Evol* **300**: 1627-1637.
- Vitek E, Yüce E, Ergin C (2014). *Gundelia dersim* and *Gundelia munzuriensis* (Compositae) two new species from Turkey, *Phytotaxa* **161**(2): 130-138.
- Yıldırım H (2014). *Puschkinia bilgineri* (Asparagaceae subfamily Scilloideae): a new *Puschkinia* Adams species from Eastern Anatolia, Turkey. *Bağbahçe Bilim Dergisi* **1**(1): 1-10.
- Yıldırım H (2014). *Taraxacum rupicolum* (Asteraceae): Doğu Anadolu'dan yeni bir Karahindiba (*Taraxacum* F.H.Wigg.) türü. *Bağbahçe Bilim Dergisi* **1**(3): 72-81, E-ISSN:2148-4015.
- Yıldırım H, Crespo M B (2014). *Acantholimon riyatguelii* (Plumbaginaceae) a threatened new unarmed species from Central Anatolia, Turkey. *Phytotaxa* **175** (2): 073–084.
- Yıldırım H, Gemici Y, Altıoğlu Y (2014). *Scilla arsusiana* Yıldırım & Gemici ve *Scilla albinerve* Yıldırım & Gemici (Asparagaceae alt familya Scilloideae): Güney Anadolu'dan iki yeni Sümbülcük (*Scilla* L.) türü. *Bağbahçe Bilim Dergisi* **1**(2): 37-49.
- Yıldırım H, Şenol SG (2014). *Alkanna malatyana* (Boraginaceae) a new species from East Anatolia, Turkey. *Phytotaxa* **164**(2): 124-132.

- Yıldırım H, Şenol SG (2014). *Campanula alisan-kilincii* (Campanulaceae), a new species from eastern Anatolia, Turkey. *Turk J Bot* **38**: 22-30.
- Yıldırım H, Şenol SG (2014). *Reseda malatyana* (Resedaceae), a new chasmophytic species from eastern Anatolia, Turkey. *Turk J Bot* **38**: 1013-1021.
- Yıldırım Ş (2013). Two new species from Kepen, Sivrihisar, Eskişehir, Turkey. *Ot Sistematik Botanik Dergisi* **20**(2): 1-10.
- Yıldırım Ş (2013). Two new species on Apiaceae from Cilo dağı (Hakkari) and Munzur dağları (Erzincan), Turkey. *Ot Sistematik Botanik Dergisi* **20**(1): 1-12.
- Yüzbaşıoğlu İS, Keskin M (2013). A new record for the flora of Turkey: *Lepidium didymum* L. (Brassicaceae). *Biological Diversity and Conservation* **6**/3: 46-48.
- Yüzbaşıoğlu S (2014). *Oenothera parodiana* (Onagraceae) a new alien species record for the flora of Turkey. *Biological Diversity and Conservation* **7**/2: 122-126.
- Yüzbaşıoğlu S, Özhatay N (2014). A new subspecies of *Crocus pestalozzae* (Iridaceae) from Turkey. *Phytotaxa* **174** (5): 279-284.
- Zare G, Dönmez AA (2014). A new species of *Orobanche* (Orobanchaceae) from Turkey. *Phytotaxa* **184**(3): 148-154.