A Contribution to the Flora of the Region Between İnceburun (Kaş) and Çayağzı (Demre) (Antalya-Turkey)

Özal GÜNER¹, Özlem ÇETİN²*

¹Gazi University, Faculty of Science, Department of Biology, Ankara, Turkey.
²Selçuk University, Science Faculty, Biotechnology, Konya, Turkey.

* Corresponding author e-mail: ozlemcetin8419@gmail.com ORCID ID: http://orcid.org/0000-0003-2886-3409

Abstract
This study includes the flora of İnceburun (Kaş) and Çayağzı (Demre) regions, which comprises one of the important tourism centers in Turkey. Twelve field trips were made to study area at different times of the year 2018-2019. The collected plant species were pressed and dried according to herbarium procedures and stored after plant identification. In this area, a total of 414 plant taxa and 266 genera, belonging to 66 families, were determined. The number of endemic and rare taxa found in the research area is 28. The family represented by the highest number of taxa was Fabaceae (49 taxa), followed by Asteraceae (48 taxa), Lamiaceae (32 taxa), Poaceae (23 taxa), Apiaceae (18 taxa), Caryophyllaceae (15 taxa), Brassicaceae (14 taxa), Orchidaceae (14 taxa), Boraginaceae (12 taxa), and Plantaginaceae (12 taxa). According to National Red Lists based on criteria and categories of the IUCN, one taxon is critically endangered (CR), two taxa are endangered (EN), eleven taxa are vulnerable (VU), seven taxa are conservation dependent (CD), three taxa are near threatened (NT), four taxa are least concern (LC), of these, Ophrys argolica H.Fleischm. is assessed as VU at a global level. Fifteen taxa are included under CITES Appendix II and two species are also protected under Appendix I of the Bern Convention. Maquis, phrygana, forest, rocky, halophytic, and sand dune are the main vegetation types in the area.

Keywords
Antalya; Endemism; Floristic Study; Mediterranean Region

İnceburun (Kaş) ve Çayağzı (Demre) (Antalya-Türkiye) Arasındaki Bölge Florasına Katkılar

Öz
Bu çalışma, Türkiye’nin önemli turizm merkezlerinden birisi olan İnceburun (Kaş) ve Çayağzı (Demre) arasındaki bölgenin florasını içermektedir. Çalışma alanına 2018-2019 yıllarında toplam 24 arazi çalışma yapılmıştır. Toplanan bitki örnekleri standart herbarium prosedürlerine göre preslenip, kurutulduktan sonra bitki tespiti yapılarak saklanmıştır. Bu alanda 66 familyaya ait toplam 414 takson ve 266 cins tespit edilmiştir. 28’lik bir sayılan endemik ve nadir bitki türlerinin bulunduğu alana, en fazla takson sayısı Fabaceae (49 takson), Asteraceae (48 takson), Lamiaceae (32 takson), Poaceae (23 takson), Apiaceae (18 takson), Caryophyllaceae (15 takson), Brassicaceae (14 takson), Orchidaceae (14 takson), Boraginaceae (12 takson) ve Plantaginaceae (12 takson) aittir. IUCN kriterlerine ve kategorilerine dayalı Ulusal Kırmızı Listeye göre, bir tür kritik kategoride, iki taksonдан tehlikede kategorisinde (EN), onbir takson duyarlı kategorisinde (VU), yedi takson koruma tabi kategorisinde (CD), dört takson ise düşük riskli kategorisinde (LC), üç takson tehditte yakın kategorisinde (NT) yer almaktadır. Ophrys argolica H.Fleischm. türü küresel seviyede VU kategorisinde değerlendirilmiştir. CITES listesinde yer alan 15 takson ve Bern Sözleşmesinde yer alan 2 takson çalışma alanı içerisinde yaşlısa sahiptir. Çalışma alanındaki vejetasyon tipleri maki, frigana, orman, kaya, halofitik ve kumuldur.

Anahtar kelimeler
Antalya; Endemizm; Floristik Çalışma; Akdeniz Bölgesi

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1. Introduction
In terms of plant biodiversity, Antalya is one of Turkey’s richest provinces. The presence of sudden altitude changes within short distances, climatic variations from coastal to inland areas, as well as variable topography contribute to its rich diversity of species (Deniz et al. 2015). Several floristic studies have been conducted in various part of Antalya. These studies ensure that the list of plant taxa distributed in Antalya and the endemism ratio are continuously updated. Flora of the Phaselis region have been published in a series of papers by Göktürk (2015, 2016, 2017), titled the Flora of the Ancient City of Phaselis I, II and III. The last study listed 631 taxa belonging to 360 genera and 84 families from this province. A floristic study was carried out in the Kıbrıs River wildlife development area by Fener and Aykurt (2019), which listed 538 taxa belonging to 276 genera and 73 families. The Kaş-Kekova Specially Environmental Protected Area (SEPA) Determination of Biodiversity Project was carried out in 2010, and 272 species were identified by project team (İntKyn. 1).

The aim of the present study was to contribute to the flora of the area between İnceburun and Çayağzı. The study area is found in the C2 square according to the grid square system of Davis (1965-1985) and is located within the Mediterranean phytogeographical zone. We consider that floristic studies are still necessary for the development of conservation strategies and the management of the unique Mediterranean maquis in Antalya.

2. Material and Method
2.1 Study area
In this study, the flora of the area between İnceburun and Çayağzı was examined (Figure 1). The study area comprises Çayağzı region (Demre) and Kaş-Kekova SEPA, and is located in the province of Antalya and the western Mediterranean coast of Turkey. Kekova Island and the surrounding coast were declared a Specially Protected Area in 1990 to protect the biological diversity and cultural richness. As a result of some projects carried out between 2002 and 2006, and with the decision of the Council of Ministers, the boundaries of Kekova Specially Protected Area have been extended to include the coastline and the islands in the west, up to İnceburunun Kaş. The protected area has been renamed as the Kaş-Kekova Specially Environmental Protected Area (Official Gazette dated 2006). The SEPA covers a total area of 258.3 km² and it is composed of 166 km² of marine area and 92 km² of terrestrial area, with 107km coastline (Akça et al. 2012). SEPA consists of three villages, Kapaklı, Çevreli and Üçağız, and it also includes some parts of Bayındır, Belenli, Boğazçık, and Sahilkılıncılı. Kale-Üçağız, Çevreli, and Kapaklı villages administratively fall within the Demre District to the east of the SEPA.

Figure 1. Map of study area (Between İnceburun and Çayağzı, Antalya -Turkey)

2.2 Climate
Meteorological data were obtained from Kaş and Kale-Demre Meteorological stations (DMI 2015). According to Kaş Meteorological stations data, the annual average rainfall is 64.5 mm, the most rainy month is January (43.9 mm) and the average temperature is 20 °C, January is the coldest month, with temperatures averaging 12.6 °C, August is the hottest month, with temperatures averaging 28.6 °C in Kaş. According to Kale-Demre Meteorological stations data, the annual average rainfall is 64.5 mm, the most rainy month is December and the average temperature is 18.8 °C, January is the coldest month, with temperatures averaging 10.1
August is the hottest month, with temperatures averaging 28.1 °C in Demre (Figure 2).

**Figure 2.** The bioclimatic diagram of Kaş and the Kale-Demre

### 2.3 Field survey

Twelve field trips were made to study area at different times of the year 2018-2019. The collected plant species were pressed and dried according to herbarium procedures and stored after plant identification. The Flora of Turkey and East Aegean Islands (Davis 1965-1985, Davis et al. 1988, Güner et al. 2000), Flora of Cyprus (Meikle 1977, 1985) and Flora of Europea (Tutin et al. 1964–1980) were used for the plant identification. The author citations for species name follow Brummitt and Powell (1992) and as updated database of the International Plant Names Index (IPNI). The names of taxa are arranged according to the Turkey Plant List (VascularPlants). Family, genus and taxa names are given in an alphabetical order on the floristic list.

### 3. Results and Discussion

#### 3.1 Floristic Results

During this project, 369 plant taxa belonging to 245 genera and 66 families were collected, observed, and photographed in the study area. The literature survey revealed that 272 taxa were previously recorded from the Kaş-Kekova SEPA (IntKyn. 1). According to our field studies, examination of herbarium (GAZI) and screening of literature (only based on previous studies and were not examined by us), the total number reached 414 plant taxa belonging to 266 genera and 66 families. The number of endemic and rare plants found in the research area is 28 (Figure 3). Additions to the flora of the area, either from new records generated in the field study, or from recent literature, are reported in Appendix 1.

The richest families in terms of plant genus were identified as Asteraceae (12.26%; 32 genera) and Fabaceae (9.19%; 24 genera), Poaceae (7.66%; 20 genera), Lamiaceae (7.27%; 19 genera), Apiaceae (5.74%; 15 genera), Brassicaceae (5.36%; 14 genera), Caryophyllaceae (3.06%; 8 genera), Boraginaceae (3.06%; 8 genera), Asparagaceae (2.63%; 7 genera), Orchidaceae (1.91%; 5 genera) respectively (Figure 4).

**Figure 3.** Endemic plants distributed in study area. a- Crocus cancellatus subsp. lycius, b- Anthemis rosea subsp. carnea, c- Campanula aktascii, d- Stachys bombycine

**Figure 4.** The largest 10 families based on the genus number in the study area

The family represented by the highest number of taxa was Fabaceae (49 taxa), followed by Asteraceae (48 taxa), Lamiaceae (32 taxa), Poaceae (23 taxa), Apiaceae (18 taxa), Caryophyllaceae (15 taxa), Brassicaceae (14 taxa), Orchidaceae (14 taxa), Boraginaceae (12 taxa), and Plantaginaceae (12 taxa) (Figure 5).
In the chorological spectrum the Mediterranean elements predominates, which highlighting the geographical position and climatic characteristics of the study area. Mediterranean elements regarded as first with 50.43%, followed by Irano-Turanian elements (1.58%) and Euro-Siberian elements (1.12%). 46.87% of the taxa are multi-regional, or of unknown phytogeographic region (Figure 6).

![Figure 6](image_url) Phytogeographic distribution of taxa in studied area

### 3.2 Conservation status

Taxa collected in the field works have been evaluated with conservation and risk status. According to National Red Lists based on criteria and categories of the IUCN (Int Kyn. 2), one taxon is Critically endangered (Campanula aktasci), two taxa are endangered (Campanula lycica, Ophrys argolica) H.Fleischm. is assessed as VU at a global level. Furthermore, three taxa are included in the Appendix of the Bern Convention, and 16 taxa are included in Appendices II of CITES. More specifically, Ophrys argolica and Ophrys lycica Renz&Taubenheim are included in the BERN and CITES Convention. Anacamptis pyramidalis (L.) Rich., Barlia robertiana (Loisel.) Greuter, Ophrys holoserica (Burm.f.) Greuter, Orchis anatolica Boiss., Orchis coriophora L., Orchis laxiflora Lam., Orchis mascula (L.) L., Orchis papilionacea L., Orchis quadriruncata Cyr. ex Ten., Orchis sancta L., Serapias bergonii E.G.Camus, Serapias orientalis (Greuter) H.Baumann & Künkele, Euphorbia dendroides L., Cyclamen graecum Link. Are included in the CITES Convention (Figure 7).

![Figure 7](image_url) Plants protected by CITES Appendix II in study area. a- Orchis sancta, b- Orchis papilionacea, c- Orchis anatolica, d- Ophrys holoserica

### 3.3 Vegetation of Study Area

Maquis, phrygana, forest, rocky, halophytic and sand dune are the main vegetation types in the study area (Figure 8). Maquis is a natural habitat...
and composed primarily of leathery-leaved and evergreen shrubs, semi-shrubs, and small trees (Aksoy 2006). Maquis elements have a deep root system, allowing them to occur even in areas with thin soil cover or stony-rock areas (Atalay and Efe 2010). Maquis species are widespread in the area, and its dominant species are *Quercus aicheri* Jaub. & Spach, *Olea europaea* L., *Arbutus andrachne* L., *Pistacia terebinthus* L., and *Phillyrea latifolia* L.

![Figure 8. General view of study area a-Okçuöldüğü, b-Çevreli, c-Kale, d-Çayağız](image)

**Pinus brutia** Ten. is one of the important forest trees of the Mediterranean region, reaching its greatest distribution in southern Turkey (Gezer 1986). *Pinus brutia* forests spread on restricted areas in the southern slopes of Kapaklı, northern slopes of Kekova island, and between Kapaklı and Çevreli villages. In some parts of the study area, maquis and *P. brutia* forests are also found together.

Phrygana (garrigue) species are common in the areas where shrubs were destroyed. They have needles and deep roots, and they require less humidity to survive. Phrygana species have small, thick, and leathery leaves and can resist hot and dry climate (Atalay 1983, Efe and Greenwood 2007, Ilseven 2017). *Sarcopoterium spinosum* (L.) Spach, *Genista acanthoclada* DC., and *Euphorbia acanthothamnos* Heldr. & Sart. ex Boiss. are frigana species that commonly occur in the study area. The northwestern regions of Çevreli village, eastern region of Kale village, region between Sahilkılıçlı and Çevreli, and coastal low-lands of Kekova and Akvaryum islands are the areas where phrygana is widely seen.

In several coastal localities, a number of shallow areas fill up with water during the winter, forming muddy, saline marshlands. As the brackish water evaporates in the summer, the salinity dramatically increases, and some marshlands may even dry up, leaving behind a pool rich in mud and salt. There is a saline area such as this one in the Alan region. *Salicornia perennans* Wild., *Halocnemum strobilaceum* (Pall.) M.Bieb. and *Halimione portulacoides* (L) Aellen are seen in this area.

As a result of the geological formation of the region, the coasts in the study area are mainly characterized by rocky shores and cliffs that can sharply rise to slopes that eventually reach 550 m altitude (Demir 2011). Vegetated sea cliffs of the coast contain *Ptilostemon chamaepeuce* (L) Less., *Inula heterolepis* Boiss., and *Crithmum maritimum* L. vegetated calcareous inland cliffs present great regional diversity, with many endemic plant species, such as *Teucrium montbretii* Benth. subsp. *pamphylicum* P.H.Davis, *Ballota glandulosissima* Hub-Mor. &Patzak, and *Erica bocquetii* (Pşmen) P.F.Stevens. *Ferula tingitana* L. is also found in this habitat.

The olive tree (*Olea europaea* L. subsp. *europaea*) is the most symbolic species in the Mediterranean Basin due to its ecological, economic, and cultural importance (Anestiadou et al. 2017). The culture of olives and olive oil is important for the whole Mediterranean Basin, and olive oil production has been undertaken for many years in the Mediterranean region of Turkey. Pomegranates, grapes, figs, almonds, and olives were discovered in a sunken ship speculated to belong to the Early Bronze Age period, found in Uluburun, in the vicinity of Kaş-Antalya (Efe et al. 2011). Also, the existence of candidate monumental olive trees in the region is evidence that olive has been cultivated for thousands of years in the study area. There are at least five candidate monumental olive trees in Ucağız and Sahilkılıçlı villages.

The most beautiful forest of Boz pırnal oak (*Quercus aicheri*), which is endemic to the Eastern Mediterranean, grows in the study area. *Quercus aicheri* was recorded for C1, C2 and C3 squares, which are in the southwest part of Turkey. In this area, the species has a scattered expansion due to
Mediterranean Oaks Networks Reports pointed out that *Q. aucheri* trees have been degraded by local people in southwest Anatolia in different ways, such as cutting, overgrazing, acorn collecting, etc., suggesting that the distribution area should be protected. Conservation of *Q. aucheri* in the natural habitat is very important to protect genetic resources and biodiversity (Özel 2003). The study area covers part of the distribution area of the *Ophrys lycia*, which is endemic to Kaş (Antalya) and is only known from its type locality. Orchidaceae is a large family consisting of over 1000 genera; most orchid genera contain one or more threatened or endangered species. Many terrestrial orchids are rare, with specialized habitat requirements, making them particularly susceptible to habitat fragmentation and modification. They have often been used as flagship species in conservation initiatives because of their uniqueness and rarity and, additionally, are often touted as important early warning bioindicators for ecosystem health given their sensitivity to environmental degradation (Wang et al. 2015). Like other endangered orchid species, *O. lycia* and its habitat are under threat. The species was previously classified as endangered (Ekim et al. 2000), then proposed to be critically endangered (CR) by Deniz (2013). In order to protect the population and ensure the survival of this species, a conservation and research project, *Ophrys lycia* (Lycian Kaş Orchid) Conservation Project, was created by Deniz et al. (2016). The Mediterranean flora of West Anatolia shows many affinities with that of the East Aegean islands and even with Greek mainland (Ekim and Güner 2000). *Ricota carnosula* Boiss. & Heldr., *Veronica stamatiadiæ* M.A.Fisch. & Greuter, *Campanula podocarpa* Boiss., *Campanula hagielia* Boiss., *Phlomis lycia* D.Don, *Fritillaria elwesii* Boiss., and *Alkanna tubulosa* Boiss. are endemic to the Eastern Mediterranean, and they are distributed in the east Aegean Islands and western Anatolia. According to information was obtained from local people, leaves and flowers of *Origanum onites* and leaves of *Salvia fruticosa* and *Laurus nobilis* are consumed as spices, teas and herbal drugs.

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Appendix 1. The abbreviations used in this etext and floristic list are as follows: CR: critically endangered, EN: endangered, LC: least concern, VU: vulnerable, Medit: Mediterranean, E.Medit: East Mediterranean, Göktürk, R.S., 2015. Phaselis Antik Kenti Florası I. Phaselis, 1, 81–131.

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Euro-Sib: Euro-Siberian, Ir.-Tur.: Irano-Turanian, End.: Endemic, IUCN: International Union for the Conservation of Nature and Natural Resources. Localities number: 1- Kapaklı village and its...
surroundings, 2- between Kapaklı and Çevreli, 3- Kapaklı canyon, 4- Çevreli village and northern slopes, 5- between Üçaż and Çevreli, 6- Alan, 7- Kale, 8- Sahilkuşluluç and its surroundings, 9- Okçuöldüğü, 10- Üzüm İskelesi, 11- Sıcak Peninsula, 12- Kocakan cove, 13- Keкова island, 14- Işıklı island, 15- Çayağzı, 16- western part of Okçuöldüğü, 17- southwest of Boğazcık, 18- Boğazcık, 19- northern side of Okçuöldüğü

FLORISTIC LIST

PTE RIDOPHYTA

APSI LENIAC EAE

Asplenium ceterach L., 9, 01.11.2018, Ö.Çetin 2056 &Ö.Güner

PTERIDACEAE

Cheilanthes pteridioides (Reich.) C.Chr., 9, 01.11.2018, Ö.Çetin 3400 &Ö.Güner

SPERMATOPHYTA

GYMNOSPERM EAE

Pinus brutia Ten., 2, 28.04.2019, Ö.Çetin 1991 &Ö.Güner

ANGIOSPERM EAE

DICOTYLEDONEAE

AMARANTHACEAE

Hali mirone portulacoides (L.) Aellen, Literature

Halocnemum strobilaceum (Pall.) M.Bieb., Literature

Salicornia perennis Wild., 6, 01.11.2018, Ö.Çetin 2060 &Ö.Güner

ANACARDIACEAE

Pistacia lentiscus L., 1, 2, 25.05.2018, Ö.Çetin 2011 &Ö.Güner

Pistacia terebinthus L. subsp. terebinthus, Medit., 1, 6, 7, 25.05.2018, Ö.Çetin 2128 &Ö.Güner

APIACEAE

Anethum graveolens L., 9, 06.04.2019, Ö.Çetin 2255 &Ö.Güner

Artemisia squamata L., 1, 04.04.2019, Ö.Çetin 2217 &Ö.Güner

Bunium f erulaceum Sm., Medit., 1, 04.04.2019, Ö.Çetin 2205 &Ö.Güner

Bupleurum gracile d’Urv., E. Medit., 9, 04.04.2019, Ö.Çetin 2234 &Ö.Güner

Caucalis platyparpos L., 8, 24.04.2019, Ö.Çetin 2286 &Ö.Güner

Crithmum maritimum L., 16, 26.04.2019, Ö.Güner 3481 &Ö.Cetin

Daucus conchita e Greuter, 7, 25.05.2018, Ö.Çetin 2030 &Ö.Güner

Eryngium falcatum F.Delaroehe, E. Medit., 10, 17.05.2019, Ö.Çetin 2340 &Ö.Güner

Ferula tingitana L., Medit., 1, 13, 14, 27.04.2019, Ö.Çetin 2329 &Ö.Güner

Lagoecia cuminoides L., Medit., 1, 4, 10, 24.04.2019, Ö.Çetin 2280 &Ö.Güner

Scaligeria napiformis (Willd.) Grande, E. Medit., 10, 24.04.2019, Ö.Çetin 2272 &Ö.Güner

Scandix pecten-veneris L., 7, 8, 05.04.2019, Ö.Çetin 2244 &Ö.Güner

Smyrnium o lusatrum L., Medit., 5, 23.02.2019, Ö.Çetin 2115 &Ö.Güner

Tordylium apulum L., Medit., 7, 25.05.2018, Ö.Çetin 2016 &Ö.Güner

Tordylium trachycarpum (Boiss.) Al-Eisawi, E. Medit., 1, 04.04.2019, Ö.Çetin 2196 &Ö.Güner

Torilis leptophylla (L.) Rchb.f., 1, 04.04.2019, Ö.Çetin 2192 &Ö.Güner

Torilis nodosa (L.) Gaertn., 18, 27.04.2019, Ö.Çetin 2330 &Ö.Güner

Torilis tenella (Delile) Rchb.f., 18, 27.04.2019, Ö.Çetin 2320 &Ö.Güner

APOCYNACEAE

Nerium oleander L., Medit., 1, 25.05.2018, Ö.Çetin 2014 &Ö.Güner

ARISTOLOCHIACEAE

Aristolochia guichardii P.H.Davis&M.S.Khan, Medit., End., 7, 25.04.2019, Ö.Çetin 2294 &Ö.Güner

Aristolochia parvifolia Sibth. &Sm., Medit., 1, 7, 15.03.2019, Ö.Çetin 2129 &Ö.Güner

ASTERACEAE

Aetheorhiza bulbosa (L.) Cass., Medit., 7, 15.03.2019, Ö.Çetin 3998 &Ö.Güner

Anthemis chaia L., E. Medit., 7, 15.03.2019, Ö.Çetin 2128 &Ö.Güner

Anthemis rosea Sm. subsp. carnea (Boiss.) Grierson, E. Medit., End., 9, 25.04.2019, Ö.Çetin 2293 &Ö.Güner

Asteriscus aquaticus (L.) Less, Medit., 10, 17.05.2019, Ö.Çetin 3431 &Ö.Güner

Asteriscus spinosus (L.) Sch.Bip., Medit., 7, 17.05.2019, Ö.Çetin 2342 &Ö.Güner

Atractylis cancellata L., Medit., 1, 25.05.2018, Ö.Çetin 2037 &Ö.Güner

Bellis annua L., Medit., 7, 15.03.2019, Ö.Çetin 2144 &Ö.Güner

Bellis perennis L., Euro-Sib., 8, 01.11.2018, Ö.Çetin 2061 &Ö.Güner

Bellis sylvestris Cirillo, Medit., 8, 01.11.2018, Ö.Çetin 3401 &Ö.Cetin

Calendula arvensis (Vaill.) L., 1, 9, 16.03.2019, Ö.Çetin 2161 &Ö.Güner

Carduus argentatus L., Medit., 18, 17.05.2019, Ö.Çetin 2343 &Ö.Güner

Carduus nutans L. subsp. nutans, 4, 17.05.2019, Ö.Çetin 2345 &Ö.Güner

Carduus pycnocephalus L., 2, 25.05.2018, Ö.Çetin 2013 &Ö.Güner

Carduus rechingerianus Kazmi, Medit., 3, 25.04.2019, Ö.Çetin 2299 &Ö.Güner

Centaurea ibérica Trev. ex Sprengel, Literature

Cichorium intybus L., 1, 25.05.2018, Ö.Çetin 2012 &Ö.Güner

Cichorium pumilum Jacq., E. Medit., 11, 26.04.2019, Ö.Çetin 2315 &Ö.Güner

Cirsium creticum d’Urv subsp. creticum, Medit., 1, 25.05.2018, Ö.Çetin 2010 &Ö.Güner

Cirsium vulgare (Savi) Ten., Literature
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Conyza bonariensis (L.) Cronquist, 7, 21.07.2019, Ö.Çetin 2352 &Ö.Güner
Cota tinctoria (L.) J.Gay var. tinctoria, 1, 25.05.2018, Ö.Çetin 2009 &Ö.Güner
Crepis reuteriana Boiss. &Heldr. subsp. reuteriana, E. Medit., 7, 05.04.2019, Ö.Çetin 2231 &Ö.Güner
Crepis sancta (L.) Bornm., 9, 16.03.2019, Ö.Çetin 2188 &Ö.Güner
Crupina crupinastrum (Moris) Vis., 9, 04.04.2019, Ö.Çetin 2267 &Ö.Güner
Echinops spinosissimus Turra. subsp. spinosissimus, 1, 25.05.2018, Ö.Çetin 2008 &Ö.Güner
Filago arvensis L., 2, 25.05.2018, Ö.Çetin 2007 &Ö.Güner
Filago eriocephala Guss., E. Medit., 2, 26.04.2019, Ö.Çetin 2276 &Ö.Güner
Geropogon hybridus (L.) Sch.Bip, Medit., 9, 06.04.2019, Ö.Çetin 3461 &Ö.Cetin
Glebionis coronaria (L.) Spach, Medit., 1, 7, 04.04.2019, Ö.Çetin 2198 &Ö.Güner
Glebionis segetum (L.) Four., Medit., 1, 7, 04.04.2019, Ö.Çetin 2201 &Ö.Güner
Hyoseris scabra L., Medit., Literature
Inula crithmoides L., 15, 23.02.2019, Ö. Güner 3418 &Ö.Cetin
Inula graveolens (L.) Desf., Medit., 17, 1, 01.11.2018, Ö. Güner 3402 &Ö.Çetin
Inula heterolepis Boiss., E. Medit., 2, 7, 26.05.2018, Ö.Çetin 2034 &Ö.Güner
Lamypopsis cynaroides (Lam.) Dittrich, E. Medit., Literature
Notobasis syriaca (L.) Cass, Medit., 6, 28.04.2019, Ö.Çetin 2336 &Ö.Güner
Onopordum rhodense Boiss. exRech. F., 5, 7, 25.05.2018, Ö.Çetin 2006 &Ö.Güner
Phagnalon graecum Boiss. &Heldr., E. Medit., 9, 16.03.2018, Ö.Çetin 2163 &Ö.Güner
Picnimon acarna (L.) Cass., Medit., 1, 25.05.2018, Ö.Çetin 2005 &Ö.Güner
Pitostemon chamaepeuce (L.) Less., E. Medit., 9, 1, 25.05.2018, Ö.Çetin 2004 &Ö.Güner
Rhagadiolus stellatus (L.) Gaertn., Medit., 1, 04.04.2019, Ö.Çetin 2169 &Ö.Güner
Scorzonera elata Boiss., D.Akd, 9, 06.04.2019, Ö. Güner 3462 &Ö.Cetin
Senecio vernalis Waldst. &Kt., 5, 23.02.2019, Ö.Çetin 2117 &Ö.Güner
Senecio vulgaris L., 1, 05.04.2019, Ö.Çetin 2230 &Ö.Güner
Sonchus asper (L.) Hill. subsp. glaucescens (Jord.) Ball, 7, 23.02.2019, Ö. Güner 3419 &Ö.Cetin
Tragopogon buphthalmoides (DC) Boiss., Ir.-Tur., 9, 06.04.2019, Ö.Çetin 2259 &Ö.Güner
Tragopogon porrifolius L. subsp. longirostris (Sch.Bip.) Greuter, 9, 25.04.2019, Ö.Çetin 2292 &Ö.Güner
Uroserpermum picroides (L.) Scop. ex F.W.Schmidt, Medit., 1, 7, 04.04.2019, Ö.Çetin 2207 &Ö.Güner
Alkanna areolata Boiss. var. areolata, E. Medit., Literature
Alkanna macrocephon Boiss. &Heldr., End., Literature
Alkanna tubulosa Boiss., E. Medit., 9, 22.02.2019, Ö. Güner 3410 &Ö.Cetin
Anchusa azurea Mill. var. azurea, Literature
Anchusa hybrida Ten, Medit., Literature
Buglossoides arvensis (L.) I.M. Johnst., 8, 05.04.2019, Ö. Güner 3451 &Ö.Cetin
Echium parvilorum Moench, Medit., 1, 15, 26.05.2018, Ö.Çetin 2042 &Ö.Güner
Echium plantagineum L., Medit., 6, 05.04.2019, Ö.Çetin 2234 &Ö.Güner
Heliotropium hirsutissimum Grauer, E. Medit., 1, 25.05.2018, Ö.Çetin 2021 &Ö.Güner
Hormuzakia aggregata (Lehm.) Guşul., Medit., 15, 15.03.2019, Ö. Güner 3424 &Ö.Cetin
Myosotis ramosissima Rochel, 18, 01.12.2018, Ö. Güner 3425 &Ö.Cetin
Onosma frutescens Lam., E. Medit., 2, 7, 9, 10, 22.02.2019, Ö.Çetin 2081 &Ö.Güner
Phagnalon rhodense Boiss. exRech. F., 5, 7, 25.05.2018, Ö.Çetin 2006 &Ö.Güner
Cardamine hisruta L., 8, 15, 15.03.2019, Ö.Çetin 2134 &Ö.Güner
Clupeola jonthaspi L., 7, 15.03.2019, Ö.Çetin 2135 &Ö.Güner
Draba verna L., 8, 22.02.2019, Ö.Çetin 2093 &Ö.Güner
Malcolmia chia (L.) DC., Medit., 1, 9, 18, 04.04.2019, Ö.Çetin 2184 &Ö.Güner
Maresia nana (DC) Batt, 15, 24.02.2019, Ö.Çetin 2122 &Ö.Güner
Microthlaspi perfoliatum (L.) F.K.Mey, 8, 22.02.2019, Ö.Çetin 2092 &Ö.Güner
Riccia carnosaBoiss. &Heldr., E. Medit., 1, 7, 8, 9, 11, 12, 23.02.2019, Ö.Çetin 2086 &Ö.Güner
Sinapis arvensis L., 15, 25.05.2019, Ö.Çetin 1988 &Ö.Güner
CAMPANULACEAE
Campanula aktaeii Aytaç &H.Duman, E. Medit., End., 19, 24.04.2019, Ö.Çetin 2278 &Ö.Güner
Campanula delicatulaBoiss., E. Medit., 1, Ö.Çetin&Ö.Güner
Campanula drabifoliaSibth. &Sm., E. Medit., 2, 05.04.2019, Ö.Çetin 2223 &Ö.Güner
Campanula hagieliaBoiss., E. Medit., 1, 27.04.2019, Ö.Çetin 2321 &Ö.Güner
Campanula lyctica Kit Tan &Sorger, End., Literature
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Campanula podocarpa Boiss., E. Medit, Literature
Capparis spinosa L., 8, 25.05.2018, Ö.Çetin 1978 &Ö.Güner
CAPPARACEAE
CRASSULACEAE
Ipomoea &Ö.Güner
Convolvulus &Ö.Güner
2212 &Ö.Güner
Valerianella &Ö.Güner
Convolvulus &Ö.Güner
2303 &Ö.Güner
Fumana &Ö.Güner
Cistus &Ö.Güner
2
Silene vulgaris &Ö.Güner
Silene nocturna &Ö.Çetin 2296 &Ö.Güner
Silene heldreichii &Ö.Çetin 2227 &Ö.Güner
Silene behen L., 1, 5, 04.04.2019, Ö.Çetin 2203 &Ö.Güner
Silene delicatula Boiss. &Balansa, End., Literature
Silene discolor Sibth. &Sm, E. Medit., 15, 24.02.2019, Ö.Çetin 2126 &Ö.Güner
Silene heliophila Boiss. &E.Medit., 3, 25.04.2019, Ö.Çetin 2296 &Ö.Güner
Silene nocturna L., Medit., 7, 05.04.2019, Ö.Güner 3452 &Ö.Cetin
Silene vulgaris (Moench) Garcke, 1, 5, 05.04.2019, Ö.Çetin 2227 &Ö.Güner
Stellaria media (L.) Vill., 9, 22.02.2019, Ö.Çetin 2091 &Ö.Güner
CISTACEAE
Cistus creticus L., Medit., 1, 5, 6, 25.05.2018, Ö.Çetin 2002 &Ö.Güner
Cistus salvifolius L., 5, 6, 26.05.2018, Ö.Çetin 2043 &Ö.Güner
Fumana arabica (L.) Spach, 9, 06.04.2019, Ö.Çetin 2257 &Ö.Güner
Fumana thymifolia (L.) Spach, 11, 26.04.2019, Ö.Çetin 2303 &Ö.Güner
CONVOLVULACEAE
Convolvulus arvensis L., 1, 21.07.2019, Ö.Çetin 2351 &Ö.Güner
Convolvulus pentapetaloides L., Medit., 12, 27.04.2019, Ö.Çetin 2331 &Ö.Güner
Convolvulus siculus L., Medit., 1, 04.04.2019, Ö.Çetin 2212 &Ö.Güner
Ipomoea purpurea (L.) Roth, 7, 15.03.2019, Ö. Güner 3426 &Ö.Cetin
Rosularia globulariifolia (Fenzl) Berger, E. Medit., End., 1, 04.04.2019, Ö.Güner 3444 &Ö.Cetin
Sedum hispanicum L., Ir-Tur., 11, 23.04.2019, Ö.Çetin 2304 &Ö.Güner
Sedum littoreum Guss., Medit., 10, 26.04.2019, Ö.Çetin 2271 &Ö.Güner
Sedum palloidum M.Bieb., 9, 15.03.2019, Ö. Güner 3428 &Ö.Cetin
Sedum rubens L., Medit., 8, 15.03.2019, Ö. Güner 3427 &Ö.Cetin
Umbilicus rotatus L., Medit., 7, 8, 9, 16.11.2018, Ö. Güner 3408 &Ö.Cetin
DICOSOREACEAE
Dioscorea communis (L.) Caddick&Wilkin, 3, 04.04.2019, Ö. Güner 3442 &Ö.Cetin
ERICACEAE
Arbutus andrachne L., 2, 4, 25.05.2018, Ö.Çetin 2001 &Ö.Güner
Erica bosca (Peşmen) P.F.Stevens, Medit., End., 2, 15.03.2019, Ö.Çetin 2152 &Ö.Güner
EUPHORBIACEAE
Euphorbia characias L. subsp. wulfenii (HoppeexW.D.J.Koch) Radcl.-Sm., E. Medit., 1, 7, 8, 9, 17, 25.05.2018, Ö.Çetin 1985 &Ö.Güner
Euphorbia dendroides L., Medit., 16, 05.04.2019, Ö.Çetin 2237 &Ö.Güner
Euphorbia falcata L., 7, 04.04.2019, Ö.Çetin 2210 &Ö.Güner
Euphorbia helioscopia L., 7, 2, 05.04.2019, Ö.Çetin 2240 &Ö.Güner
Euphorbia peplus L., 7, 05.04.2019, Ö.Çetin 2238 &Ö.Güner
Euphorbia strickia L., 1, 15.03.2019, Ö.Çetin 2132 &Ö.Güner
Mercurialis annua L., 18, 25.05.2018, Ö.Çetin 1996 &Ö.Güner
Ricinus communis L., 1, 25.05.2018, Ö.Çetin 1999 &Ö.Güner
FABACEAE
Anagris foetida L., Medit., 7, 25.05.2018, Ö.Çetin 1993 &Ö.Güner
Anthyllis vulneraria L. subsp. praepropera (Kerner) Bornm., Medit., 7, 06.04.2019, Ö.Çetin 2261 &Ö.Güner
Astragalus hamus L., 11, 26.04.2019, Ö.Çetin 2309 &Ö.Güner
Bituminaria bituminosa (L.) C.H.Stirt., Medit., 1, 25.05.2018, Ö.Çetin 1998 &Ö.Güner
Calicotome villosa (Poir.) Link, Medit., 9, 25.05.2018, Ö.Çetin 1995 &Ö.Güner
Ceratonia siliqua L., Medit., 1, 2, 3, 9, 11, 25.05.2018, Ö.Çetin 1990 &Ö.Güner
Genista acanthoclada DC., E. Medit., 1, 2, 4, 5, 6, 7, 8, 9, 12, 27.05.2018, Ö.Çetin 2045 &Ö.Güner
Hymenocarpus cirrinitatus (L.) Savi, 7, 27.05.2018, Ö.Çetin 2046 &Ö.Güner
Lathyrus aphaca L., 3, 25.04.2019, Ö.Güner 3468 &Ö.Cetin
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Lathyrus setifolius L., Medit., 5, 23.02.2019, Ö.Çetin 2114 &Ö.Güner
Lotus ornithopodioides L., Medit., 7, 05.04.2019, Ö.Güner 3469 &Ö.Cetin
Lupinus angustifolius L., 7, 15.03.2019, Ö. Güner 3429 &Ö.Cetin
Medicago arabica (L.) Huds., 1, 04.04.2019, Ö.Güner 3445 &Ö.Cetin
Medicago brachycarpa M.Bieb., Ir-Tur., 2, 27.04.2019, Ö.Güner 3503 &Ö.Cetin
Medicago carica (Hub.-Mor.) E.Small, Medit., End., 18, 27.04.2019, Ö.Cetin 2334 & Ö. Güner
Medicago disciformis DC. Medit., 2, 28.04.2019, Ö.Güner 3492 &Ö.Cetin
Medicago granadensis Wild., E. Medit., 1, 06.04.2019, Ö.Cetin 2263 &Ö.Güner
Medicago littoralis Rohde ex Lois., Literature
Medicago marina L., 15, 24.02.2019, Ö.Çetin 2123 &Ö.Güner
Medicago minima (L.) Bartal., Literature
Medicago orbicularis (L.) Bartal., 1, 15, 04.04.2019, Ö.Çetin 2193 &Ö.Güner
Medicago rigidula (L.) All., 11, 26.04.2019, Ö.Güner 3482 &Ö.Cetin
Melilotus elegans Salzm. ex Ser., Medit., Literature
Melilotus indica (L.) Lam., Medit., 14, 26.04.2019, Ö.Çetin 2301
Melilotus officinalis (L.) Desr., 9, 25.04.2019, Ö.Çetin 2300 &Ö.Güner
Onobrychis caput-galli (L.) Lam., Medit., 2, 28.04.2019, Ö.Güner 3501 &Ö.Cetin
Ononis natrix L., Medit., 15, 27.04.2019, Ö.Güner 3487 &Ö.Cetin
Ononis reclinata L., Medit., 2, 28.04.2019, Ö.Güner 3489 &Ö.Cetin
Pisum sativum L. subsp. elatius Aschers. &Graebn. var. elatius, Medit., 16, 06.04.2019, Ö.Çetin 2258 &Ö.Güner
Sarpiurus subvillosus L. var. subvillosus, 1, 24.04.2019, Ö.Çetin 2281 &Ö.Güner
Securigera varia (L) Lassen, E. Medit., 1, 05.04.2019, Ö.Çetin 2236 &Ö.Güner
Spartium junceum L., Medit., 16, 25.05.2018, Ö.Çetin 1984 &Ö.Güner
Tetragonolobus requienii (Sanguin.) Sanguin., 2, 27.04.2019, Ö.Çetin 2325 &Ö.Güner
Trifolium angustifolium L., 9, 27.04.2019, Ö.Çetin 2328 &Ö.Güner
Trifolium campestrum Schreb., 1, 27.04.2019, Ö.Çetin 2327 &Ö.Güner
Trifolium clypeatum L., E. Medit., 7, 15.03.2019, Ö.Çetin 2137 &Ö.Güner
Trifolium grandiflorum Schreb., E. Medit., 9, 06.04.2019, Ö.Çetin 2266 &Ö.Güner
Trifolium hirtum All., Medit., 1, 27.04.2019, Ö.Çetin 2326 &Ö.Güner
Trifolium pilulare Boiss., 7, 21.07.2019, Ö.Çetin 2355 &Ö.Güner
Trifolium purpureum Lois., Medit., 1, 28.04.2019, Ö.Güner 3490 &Ö.Çetin
Trifolium stellatum L., 1, 7, 04.04.2019, Ö.Çetin 2176 &Ö.Güner
Trifolium tomentosum L., 7, 05.04.2019, Ö.Çetin 2221 &Ö.Güner
Trigonella arvensis Boiss., Medit., 7, 18, 17.05.2019, Ö.Çetin 2339 &Ö.Güner
Trigonella monspeliaca L., Medit., 8, 27.04.2019, Ö.Güner 3504 &Ö.Çetin
Trigonella spicata Sibth. &Sm., E. Medit., 9, 06.04.2019, Ö.Güner 3463 &Ö.Cetin
Tripodium tetraphyllum (L.) Fourr., Medit., 9, 06.04.2019, Ö.Cetin 2261 &Ö.Güner
Vicia faba L., 1, 23.02.2019, Ö. Güner 3420 &Ö.Cetin
Vicia hybrida L., 7, 15, 15.03.2019, Ö. Güner 3430 &Ö.Çetin

FAGACEAE
Quercus aicher Jau. &Spach, E. Medit., End., 8, 25.05.2018, Ö.Çetin 2019 &Ö.Güner
Quercus cocifera L., Medit., 8, 25.05.2018, Ö.Çetin 2018 &Ö.Güner

GENTIANACEAE
Blackstonia perfoliata (L.) Huds. subsp. perfoliata, 11, 24.04.2019, Ö.Çetin 2284 &Ö.Güner

Centaurium erythraea Rafn. subsp. rhodense (Boiss. &Reut.) Melderis, Medit., 9, 10, 25.05.2018, Ö.Çetin 2026

Centaurium pulchellum (Sw.) Druce, 9, 24.04.2019, Ö.Çetin 2285 &Ö.Güner

GERANIACEAE
Erodium acaule (L) Becherer&Thell., Medit., 9, 22.02.2019, Ö.Çetin &Ö.Güner
Erodium ciconium (L) L Her., 9, 16.03.2019, Ö. Güner 3439 &Ö.Çetin
Erodium cicutarium (L) L Lér., 15, 16.03.2019, Ö. Güner 3502 &Ö.Çetin
Erodium gruinum (L) L Her., E. Medit., 7, 23.02.2019, Ö. Güner 3503 &Ö.Çetin
Erodium malacoides (L) L Her, Medit., 8, 15.03.2019, Ö. Güner 3504 &Ö.Çetin
Geranium lucidum L., 1, 15.03.2019, Ö. Güner 3431 &Ö.Çetin
Geranium molle L., 1, 16.03.2019, Ö. Güner 3433 &Ö.Çetin
Geranium purpureum Vill., 1, 7, 9 15.03.2019, Ö. Güner 3432 &Ö.Çetin

LAMIACEAE
Ajuga bombbycina Boiss., E. Medit., End., 8, 16.11.2018, Ö. Güner 3464 &Ö.Çetin
Ajuga chamaepitys (L) Schreb. subsp. chia (Schreb.) Arcang., 8, 16.11.2018, Ö. Güner 3409 &Ö.Çetin
Ajuga orientalis L., 7, 23.02.2019, Ö. Güner 3421 &Ö.Çetin
Ballota glandulosissima Hub-Mor. &Patzak, E. Medit., End., 5, 13, 22.07.2019, Ö.Çetin 2359
Clinopodium suaveolens (Sm.) Kuntze, Euro-Sib., 17, 02.11.2018, Ö. Güner 3408 &Ö.Çetin

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Lamium amplexicaule L., 8, 9, 23.02.2019, Ö.Çetin 2358
Lythrum maritimum Kunth, 6, 21.07.2019, Ö.Çetin 2358

Punica granatum L., 6, 25.04.2019, Ö.Çetin 3470

MALVACEAE
Alcea striata [DC] Alef., 3, 25.04.2019, Ö.Güner 3471

MORACEAE
Malpe malacoides L., E. Medit., L.
Malva cretica Cav., Medit., 9, 24.04.2019, Ö.Güner 3467

OLLACEAE
Olea europaea L., Medit., 1, 8, 25.05.2019, Ö.Çetin 2097

Phillyrea latifolia L., Medit., 1, 8, 25.05.2019, Ö.Çetin 2097

PAPAVERACEAE
Papaver rhoeas L., 1, 25.05.2019, Ö.Çetin 2297

Phyllanthaceae
Parentucellia viscosa (L.) Caruel, Medit., 7, 05.04.2019, Ö.Güner 3454

OROBANCHACEAE
Orobanche caryophyllacea Sm., 1, 04.04.2019, Ö.Çetin 2206

Orobanche ramosa L., 1, 04.04.2019, Ö.Çetin 2216

PAPILANTHACEAE
Andchane telephioides L., 9, 24.04.2019, Ö.Çetin 2288

PLANTAGINACEAE
Plantago lagopus L., Akd, 8, 16.03.2019, Ö.Çetin 2158

PLANTAGINACEAE
Plantago major L., Medit., 1, 7, 23.02.2019, Ö.Çetin 2097

RUBIACEAE
Rheum rhaponticum L., Akd, 8, 16.03.2019, Ö.Çetin 2288
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Plantago lanceolata L., 7, 15.03.2019, Ö. Güner 3437 &Ö.Çetin
Plantago major L. subsp. intermedia (Gilib.) Lange, 1, 15.03.2019, Ö. Güner 3438 &Ö.Çetin
Plantago scabra Moench, 1, 04.04.2019, Ö.Çetin 2175
Veronica cymbalaria Bodard, Medit., 9, 16.03.2019, Ö.Çetin 2167
Veronica hederifolia L., 9, 22.02.2019, Ö. Güner 3411 &Ö.Çetin
Veronica stamatiadis M.A.Fisch. &Greuter, Medit., 9, 16.03.2019, Ö.Çetin 2166
Veronica syriaca Roem. &Schult., Medit., 8, 05.04.2019, Ö. Güner 3456 &Ö.Çetin
Platanaceae
Platanus orientalis L., 2, 26.05.2018, Ö.Çetin 1974

Limonium effusum (Boiss.) Kuntze, E. Medit., End., Literature

Polygalaceae
Polygala supina Schreb., 3, 25.04.2019, Ö.Çetin 2295

Polygonaceae
Polygonum aviculare L., 11, 26.04.2019, Ö. Güner 3508 &Ö.Çetin
Polygonum equisetiforme Sibth. &Sm., 16, 15.11.2018, Ö. Güner 3457 &Ö.Çetin
Rumex crispus L., 1, 25.05.2018, Ö.Çetin 1971
Portulaca oleracea L., 1, 25.05.2018, Ö.Çetin 1972

Primulaceae
Anagallis arvensis L., 1, 04.04.2019, Ö.Çetin 2213
Asterolonin linum-stellatum (L.) Duby, Medit., 8, 15.03.2019, Ö. Güner 3458 &Ö.Çetin
Cyclamen graecum Link, Medit., 1, 5, 6, 7, 8, 9, 10, 11, 01.11.2018, Ö.Çetin 2054

Ranunculaceae
Anemone coronaria L., 1, 5, 6, 7, 8, 9, 11, 23.02.2019, Ö.Çetin 2118
Clematis cirrhosa L., 4, 10.11.2018, Ö.Çetin 2070
Clematis vitalba L., 8, 25.05.2018, Ö.Çetin 1970
Ranunculus chius DC., E. Medit., 6, 26.04.2019, Ö.Çetin 2310
Ranunculus constantinopolitanus (DC.) d’Urv., Literature
Ranunculus peltatus Schrank subsp. fucoides (Freyn) MuñozGarm., 6, 23.02.2019, Ö.Çetin 2101
Staphisagria macrospurma Spach, Medit., 8, 21.07.2019, Ö.Çetin 2353

Rhamnaceae
Rhamnus lycioides L. subsp. oleoides (L.) Jahandiez &Maire, 1, 22.02.2019, Ö. Güner 3413 &Ö.Çetin

Rosaceae
Amygdalus graeca Lindl., 9, 22.02.2019, Ö. Güner 3412 &Ö.Çetin
Sanguisorba minor L., 7, 25.05.2018, Ö.Çetin 1973
Sarcopoterium spinosum (L.) Spach, 4, 25.05.2018, Ö.Çetin 1982

Rubiaceae
Crucianella latifolia L., Medit., 1, 04.04.2019, Ö.Çetin 2218
G allium aparine L., 2, 15.03.2019, Ö.Çetin 2153
G allium brevifolium Sm. subsp. brevifolium, End., Literature
G allium graecum L., E. Medit., 1, 10.11.2018, Ö.Çetin 2069
G allium pseudocapitatum Hub.-Mor. ex Ehrend. &Schönb.-Tem., E. Medit., End., 1, 27.05.2018, Ö.Çetin 2048
G allium setaceum Lam., 1, 04.04.2019, Ö.Çetin 2190
Rubia rotundifolia Banks & Sol., E. Medit., 1, 06.04.2019, Ö.Çetin 2264
Rubia tenuifolia d’Urv, 9, 04.04.2019, Ö.Çetin 2204
Sherardia arvensis L., Medit., 1, 8, 9, 04.04.2019, Ö.Çetin 2187
Valantia hispida L., Medit., 8, 9, 16.03.2019, Ö.Çetin 2165

Rutaceae
Ruta chalepensis L., 1, 13, 27.04.2019, Ö.Çetin 2333

Scrophulariaceae
Scrophularia lucida L., Medit., 16, 16.03.2019, Ö.Çetin 2164
Scrophularia peregrina L., Medit., 1, 7, 15.03.2019, Ö.Çetin 2130
Scrophularia pinardi Boiss., E. Medit., 5, 7, 23.02.2019, Ö.Çetin 2113
Verbascum levanticum I.K.Ferguson, E. Medit., 3, 27.04.2019, Ö.Çetin 2332
Verbascum sinuatum L., Medit., 1, 25.05.2018, Ö.Çetin 2033

Smilacaceae
Smilax aspera L., 3, 25.05.2018, Ö.Çetin 1983
Smilax excelsa L., 3, 25.04.2019, Ö. Güner 3474 &Ö.Çetin

Solanaceae
Hyoscyamus aureus Bertol., E. Medit., 3, 25.04.2019, Ö.Çetin 2298
Mandragora autumnalis Bertol., Medit., 9, 22.02.2019, Ö.Çetin 2084 &Ö. Güner
Solanum americanum Mill., 9, 25.05.2018, Ö.Çetin 2039

Styracaceae
Styrax officinalis L., 1, 04.04.2019, Ö. Güner 3448 &Ö.Çetin

Thymelaeaceae
Daphne gnidioidea Jaub. &Spach, 1, 2, 16.11.2018, Ö.Çetin 2075
Thymelaea hirsuta (L.) Endl., Medit., 15, 24.02.2019, Ö.Çetin 2125

Urticaceae
Parietaria lusitanica L., Medit., 7, 18, 25.04.2019, Ö.Çetin 2290
Urtica pilulifera L., 9, 16.03.2019, Ö.Çetin 2159

Zygophyllaceae
Tribulus terrestris L., 7, 16.11.2018, Ö.Çetin 2074

Monocotyledoneae

Amaryllidaceae
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Allium amethystinum Tausch, Medit., 7, 17.05.2019, Ö.Güner 3493 &Ö.Cetin
Allium junceum Sm. subsp. junceum, E. Medit., 7, 24.04.2019, Ö.Cetin 2282 &Ö.Güner
Allium myrianthum Boiss., Ir.-Tur., 10, 24.04.2019, Ö.Güner 3465 &Ö.Cetin
Allium nigrum L., Medit., 6, 05.04.2019, Ö.Güner 3450 &Ö.Cetin
Allium sandrasicum Kollmann, Özhatay&Bothmer, E. Medit., End., Literature
Allium scorodoprasum L. subsp. rotundum (L.) Stearn, 9, 24.04.2019, Ö.Güner 3466 &Ö.Cetin
Allium subhisutum L., 7, 15.03.2019, Ö.Güner 3422 &Ö.Cetin
Narcissus serotinus L., 17, 23.02.2019, Ö.Güner 3413 &Ö.Cetin
Narcissus tazetta L., 16, 16.11.2018, Ö.Cetin 2072 &Ö.Güner
ARACEAE
Arum dioscoridis Sm. var. dioscoridis, E. Medit., 1, 25.05.2018, Ö.Cetin 1989 &Ö.Güner
Biarum pyriforme (Schott) Engl., 2, 01.11.2018, Ö.Cetin 2059 &Ö.Güner
Arisarum vulgare O.Targ.Tozz, Medit., 16, 16.11.2018 Ö.Cetin 2073 &Ö.Güner
Dracunculus vulgaris Schott, E. Medit., 6, 25.05.2018, Ö.Cetin 1987 &Ö.Güner
ASPARAGACEAE
Asparagus acutifolius L., Medit., 6, 25.05.2018, Ö.Cetin 1986 &Ö.Güner
Bellevallia trifoliata (Ten.) Kunth, Medit., 7, 15.03.2019, Ö.Güner 3423 &Ö.Cetin
Drimia maritima (L.) Stearn, 1, 10, 25.05.2018, Ö.Cetin 1997 &Ö.Güner
Muscaria comosum (L.) Mill., Medit., 8, 05.04.2019, Ö.Cetin 2251 &Ö.Güner
Muscaria parviflorum Desf., Medit., 6, 02.11.2018, Ö.Güner 3404 &Ö.Cetin
Ornithogalum narbonense L., Medit., 14, 26.04.2019, Ö.Güner 3473 &Ö.Cetin
Ornithogalum pyrenaicum L., 11, 23.02.2019, Ö.Güner 3414 &Ö.Cetin
Ornithogalum umbellatum L., 10, 23.02.2019, Ö.Güner 3415 &Ö.Cetin
Prospera autnnaele (L.) Speta, Medit., 9, 01.11.2018, Ö.Cetin 2058 &Ö.Güner
Ruscus aculeatus L., 18, 25.05.2018, Ö.Cetin 1994 &Ö.Güner
COLCHICACEAE
Colchicum stevenii Kunth, E. Medit., 1, 2, 9, 02.11.2018, Ö.Cetin 2062 &Ö.Güner
Cyperaceae
Bolboschoenus maritimus (L.) Palla subsp.maritimus, 11, 26.04.2019, Ö.Güner 3474 &Ö.Cetin
Carex remota L. subsp. remota, 11, 26.04.2018, Ö.Güner 3475 &Ö.Cetin
IRIDACEAE
Crocos cancellatus Herb. subsp. lycius B.Mathew, E. Medit., End., 4, 10.11.2018, Ö.Cetin 2071 &Ö.Güner
Gladiolus italicus Mill., 1, 04.04.2019, Ö.Güner 3441 &Ö.Cetin
Gynandriris sisyrinchium (L.) Parl, 1, 04.04.2019, Ö.Güner 3442 &Ö.Cetin
Romulea bulbocodium (L.) Sebast. &Mauri, Literature
Romulea tempskyana Freyn, E. Medit., 9, 15, 22.02.2019, Ö.Cetin 2083 &Ö.Güner
JUNCACEAE
Juncus heldreichianus T.Marsson ex Parl., E. Medit., 11, 26.04.2019, Ö.Güner 3476 &Ö.Cetin
LILIACEAE
Fritillaria elwesi Boiss., E. Medit., 1, 23.02.2019, Ö.Cetin 2106 &Ö.Güner
Gagea fibrosa (Desf.) Schult. &Schult.f., 8, 23.02.2019, Ö.Cetin 2112 &Ö.Güner
Gagea graeca (L.) Irmsch., E. Medit., 8, 18, 15.03.2019, Ö.Cetin 2150 &Ö.Güner
Gagea peduncularis (C.Presl) Pascher, Akd., 9, 23.02.2019, Ö.Güner 3415 &Ö.Cetin
ORCHIDACEAE
Anacamptis pyramidalis (L.) Rich., 1, 04.04.2019, Ö.Cetin 2195 &Ö.Güner
Barlia robertiana (Loisel.) Greuter, Medit., Literature
Ophrys argolica H.Fleischm., 18, 23.02.2019, Ö.Cetin 2111 &Ö.Güner
Ophrys holoserica (Burm.f.) Greuter, 10, 24.04.2019, Ö.Cetin 2274 &Ö.Güner
Ophrys lycia Renz&Taubenheim, Medit., End., Literature
Orchis anatolica Boiss., E. Medit., 8, 15.03.2019, Ö.Cetin 2147 &Ö.Güner
Orchis cariophora L, 10, 24.04.2019, Ö.Çetin 2273 &Ö.Güner
Orchis laxiflora Lam. subsp. laxiflora, Medit., Literature
Orchis mascula (L.) subsp. pinetorum (Boiss. &Kotschy) G.Camus, E. Medit., Literature
Orchis papilionacea L., 7, 23.02.2019, Ö.Cetin 2098 &Ö.Güner
Orchis quadriflora (Cyr. ex Ten., E. Medit., 4, 26.04.2019, Ö.Cetin 2306 &Ö.Güner
Orchis sancta L, E. Medit., 12, 25.05.2019, Ö.Cetin 2314 &Ö.Güner
Serapias bergonii E.G.Camus, Medit., 12, 26.04.2019, Ö.Güner 3477 &Ö.Cetin
Serapias orientalis (Greuter) H.Baumann&Künkele, Medit., Literature
POACEAE
Aegilops umbellulata Zhuk., Ir.-Tur., 12, 26.04.2019, Ö.Güner 3478 &Ö.Cetin
Aeluropus littoralis (Gouan) Parl., 12, 26.04.2019, Ö.Güner 3479 &Ö.Cetin
Alfredecurus myosuroides Huds., Euro-Sib., 1, 02.11.2018, Ö.Güner 3405 &Ö.Cetin
Avena barbata Pott ex Link, 3, 17.05.2019, Ö.Güner 3498 &Ö.Cetin
Brachypodium distachyon (L.) P.Beauv., Medit., 1, 04.04.2019, Ö.Güner 3443 &Ö.Cetin
Briza maxima L., 10, 24.04.2019, Ö.Cetin 2277 &Ö.Güner

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Briza minor L., 9, 25.05.2018, Ö.Çetin 1992 &Ö.Güner
Bromus diandrus Roth, 12, 26.04.2019, Ö.Güner 3480 &Ö.Çetin
Bromus japonicus Thunb., Literature
Bromus tectorum L., Literature
Chrysopogon gryllus (L.) Trin., 6, 02.11.2018, Ö. Güner 3407 &Ö.Çetin
Cynodon dactylon (L.) Pers., Literature
Dactylis glomerata L. subsp. hispanica (Roth) Nyman, Literature
Henrardia persica (Boiss.) C.E.Hubb., Literature
Lolium perenne L., Literature
Oryzopsis miliacea (L.) Asch. &Schweinf., 6, 10.11.2018, Ö. Güner 3408 &Ö.Çetin
Phleum bertolonii DC., 9, 02.11.2018, Ö.Güner 3406 &Ö.Çetin
Phragmites australis (Cav.) Trin. exSteud., 15, 28.04.2019, Ö.Güner 3491 &Ö.Çetin
Poa bulbosa L., Literature
Polypogon monspeliiensis (L.) Desf., Literature
Psilurus incurvus (Gouan) Schinz&Thell., 1, 04.04.2019, Ö.Güner 3448 &Ö.Çetin
Stipa bromoides (L.) Dörf., Medit., Literature
Taeniatherum caput-medusae (L.) Nevski subsp. crinitum(Schreb.) Melder, Literature
XANTHORHOEACEAE
Asphodeline lutea (L.) Rchb., Literature
Asphodelus aestivus Brot., 5, 23.02.2019, Ö. Güner 3416 &Ö.Çetin
Asphodelus fistulosus L., 18, 23.02.2019,Ö. Güner 3417 &Ö.Çetin