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The checklist of Turkish *Pezizales* species

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Türkiye *Pezizales* türleri kontrol listesi

Abstract: This study presents a checklist of the species belonging to order *Pezizales*, determined in Türkiye. The list includes 264 species belonging to 81 genera and 15 families. In the list, the current name of the species, distributions in Türkiye (at province level), and the literature related to obtained data are provided.

Key words: Macrofungi, Ascomycota, Pezizomycetes, Pezizales

Özet: Bu çalışma Türkiye’de tespit edilmiş *Pezizales* takımına mensup türlerin bir kontrol listesini sunmaktadır. Liste 81 cins ve 15 familya içinde yer alan 264 tür içermektedir. Listede, türlerin güncel isimleri, Türkiye’deki yayılışları (il bazında) ve veri kaynağı olarak kullanılan literatür verilmiştir.

Anahtar Kelimeler: Makromantarlar, Ascomyota, Pezizomycetes, Pezizales

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1. Introduction

Pezizales J. Schröt. is a large order of the subclass *Pezizomycetidae*. It contains the operculate discomycetes which are the most readily recognized cup fungi. General characteristics of the members of *Pezizales* can be summarised as follows: Ascocarp mostly an epigeous cup-shaped or disc-like, fleshy, sometimes stalked apothecium ranging between less than one millimeter to several centimeters. Some form hypogeous ascomata and rely on animals for their spore dispersal while the epigeous fruiting bodies have an active spore dispersal mechanism. In general, asci cylindrical with an operculum. Most of the members are terrestrial and saprotrophic on soil, burnt ground, decaying wood, compost or dung, some may form ectomycorrhiza with trees (Maia et al., 1996; Webster and Weber, 2007).

Kirk et al (2008) gives the existing family, genera and species numbers as 16, 199 and 1683 respectively. Until the end of 2022, 264 of them have also been presented from Türkiye. Here we present the current names, distribution (at province level) and the relative literature.

The study aims to establish a list of *Pezizales* members in our country and to make a contribution to the mycobiota of Türkiye.

2. Materials and Method

The studies on Turkish macromycetes including the members of *Pezizales* were traced and a list of the taxa belonging to the order *Pezizales* were prepared together with their distribution localities. The list was also cross-checked with the checklists (Solak et al., 2007, 2015; Sesli and Denchev, 2008, 2014; Sesli et al., 2020; Akata et al., 2022; Solak and Türkoğlu, 2022) presented so far, and latest contributions. During preparation of the list, only the taxa presented in a peer reviewed article or a full text

conference paper were considered. The taxa which were not reported by a paper or full text proceeding but anonymised by the previously presented checklists, were also included in the list. But those presented in other conference papers, graduate theses or project reports were not considered. Those taxa which were presented only at generic level (i.e. *Peziza* sp.) but not reported at species level were not included in the list.

3. Results

A list of 264 species of *Pezizales* which were reported in Türkiye were compiled. The species were listed in alphabetical order. Colour photographs of some species were also presented (Fig. 1).

Ascobolaceae Boud. ex Sacc.

Ascobolus behnitziensis Kirschst.: Karaman (Uzun and Kaya, 2016).

Ascobolus carbonarius P. Karst.: Gaziantep (Uzun et al., 2018).

Ascobolus crenulatus P. Karst.: Gaziantep (Uzun et al., 2018).

Ascobolus foliicola Berk. & Broome: Gaziantep (Uzun et al., 2018).

Ascobolus furfuraceus Pers.: Diyarbakır (Demirel et al., 2016); Gaziantep (Kaya et al., 2014); Trabzon (Akata et al., 2012).

Ascobolus immersus Pers.: Gaziantep (Uzun et al., 2018).

Saccobolus glaber (Pers.) Lambotte: Gaziantep (Uzun et al., 2018).

Thecotheus holmskjoldii (E.C. Hansen) Chenant.: Gaziantep (Uzun et al., 2018).

Thecotheus lundqvistii Aas.: Karaman (Çetinkaya et al., 2020).

Thecotheus pelletieri (P. Crouan & H. Crouan) Boud.: Gaziantep (Kaya and Uzun, 2015).

Ascodesmidaceae J. Schröt.

Lasiobolus cuniculi Velen.: Gaziantep (Uzun et al., 2018).

Lasiobolus papillatus (Pers.) Sacc.: Aydın (Güngör et al., 2014).

Caloscyphaceae Harmaja

Caloscypha fulgens (Pers.) Boud.: Adana (Doğan and Kurt, 2016); Adıyaman (Kaya, 2009); Antalya (Öztürk et al., 2003); Artvin (Demirel et al., 2017); Balıkesir (Altuntaş et al., 2017); Bolu (Yağız et al., 2006a; Servi et al., 2010); Gaziantep (Kaya, 2009; Uzun et al., 2015); Kahramanmaraş (Kaya, 2009; Kaya et al., 2009); Karabük (Yağız et al., 2005); Karaman (Doğan and Öztürk, 2006); Kastamonu (Akata et al., 2010); Kayseri (Kaşık et al., 2003; Türkoğlu and Gezer, 2006); Kocaeli (Doğan et al., 2021); Konya (Alkan et al., 2010; Kaşık et al., 2010); Mersin (Doğan et al., 2010, 2012); Nevşehir (Doğan and Türkoğlu, 2006); Sinop (Afyon et al., 2004); Trabzon (Akata et al., 2014; Akata and Uzun, 2017).

Discinaceae Benedix

Discina ancilis (Pers.) Sacc.: Adana (Doğan ve Kurt, 2016); Artvin (Demirel et al., 2017); Balıkesir (Solak et al., 2002); Bolu (Servi et al., 2010); Erzurum (Sadullahoğlu et al., 2021); Isparta (Güngör et al., 2015); İzmir (Solak et al., 1999); Kahramanmaraş (Kaya, 2009); Konya (Alkan et al., 2010); Kütahya (Allı et al., 2017); Yozgat (Türkecul and Işık, 2016).

Discina brunnea (Underw.) Raitv.: Hakkâri (Acar et al., 2018).

Discina melaleuca Bres.: Antalya (Solak et al., 2014b); Denizli (Gezer et al., 2011); Uşak (Türkoğlu ve Yağız, 2012).

Gyromitra ambigua (P. Karst.) Harmaja: Erzurum (Gücin et al., 2000).

Gyromitra esculenta (Pers.) Fr.: Aksaray (Doğan and Türkoğlu, 2006); Antalya (Gezer, 2000); Aydın (Allı and Işıloğlu, 2007; Allı et al., 2007); Balıkesir (Solak et al., 2002; Altuntaş et al., 2017); Bartın (Özkazanç and Yeşilbaş Keleş, 2019); Bolu (Afyon and Konuk, 2001b; Yağız et al., 2006a); Denizli (Gezer et al., 2007, 2011a,b; Türkoğlu et al., 2007; Türkoğlu, 2008); Eskişehir (Köstekci et al., 2005); Isparta (Güngör et al., 2015); İzmir (Solak et al., 1999); Karaman (Öztürk et al., 2001); Kastamonu (Afyon and Konuk, 2001b); Konya (Alkan et al., 2010); Kütahya (Allı et al., 2017); Muğla (Işıloğlu, 2001; Güngör et al., 2013, 2016); Nevşehir (Doğan and Türkoğlu, 2006); Osmaniye (Solak et al., 2012); Uşak (Türkoğlu et al., 2008); Yozgat (Türkecul and Işık, 2016).

Gyromitra gigas (Krombh.) Cooke: Artvin (Demirel et al., 2017); Bingöl (Uzun et al., 2009); Diyarbakır (Acar

et al., 2015); Kastamonu (Afyon et al., 2005; Yağız et al., 2006b; Akata et al., 2010); Kütahya (Allı et al., 2017).

Gyromitra infula (Schaeff.) Quél.: Artvin (Demirel et al., 2004, 2017); Gümüşhane (Sesli, 2007; Akata et al., 2016); Eskişehir (Köstekci et al., 2005); Kastamonu (Akata et al., 2010); Trabzon (Sesli, 1998).

Gyromitra longipes Harmaja: Muğla (Güngör et al., 2013).

Gyromitra tasmanica Berk. & Cooke: Muğla (Güngör et al., 2013).

Helvellaceae Fr.

Balsamia vulgaris Vittad.: Muğla (Allı ve Doğan, 2019).

Barssia gunerü H.H. Doğan, Bozok & Taşkın: Osmaniye (Doğan et al., 2018).

Barssia hellenica Kaounas, Agnello, P. Alvarado & Slavova: Gaziantep (Uzun et al., 2018).

Dissingia leucomelaena (Pers.) K. Hansen & X.H. Wang: Adıyaman (Kaya et al., 2004; Kaya, 2005, 2009, 2010); Ankara (Akata et al., 2019); Antalya (Öztürk et al., 2003; Gezer, 2000; Solak et al., 2014b); Aydın (Allı et al., 2007); Balıkesir (Solak et al., 2002; Altuntaş et al., 2017); Bolu (Yağız et al., 2006a; Afyon and Konuk, 2001b); Burdur (Solak et al., 2013); Çorum (Alkan et al., 2016); Denizli (Köse et al., 2006; Türkoğlu et al., 2007; Türkoğlu, 2008; Gezer et al., 2011a,b; Kaşık et al., 2013); Erzurum (Öztürk et al., 2000; Sadullahoğlu et al., 2021); Gaziantep (Kaya, 2009; Kaya et al., 2012; Kaya et al., 2014; Uzun et al., 2015); Hatay (Baba et al., 2013; Güngör et al., 2016); Isparta (Güngör et al., 2015); İzmir (Solak et al., 1999); Kahramanmaraş (Kaya, 2006, 2009, Kaya et al., 2009); Karaman (Öztürk et al., 2001); Kırıkkale (Güler et al., 2013); Kilis (Solak et al., 2014a); Konya (Aktaş et al., 2003; Alkan et al., 2010; Kaşık et al., 2010, 2017; Çevik et al., 2021); Kütahya (Allı et al., 2017); Malatya (Işıloğlu and Öder, 1995a; Işıloğlu, 1997); Manisa (Gücin and Öner, 1982); Mersin (Doğan et al., 2007, 2012; Güngör et al., 2015); Muğla (Işıloğlu, 2001; Güngör et al., 2016; Tırpan et al., 2018); Niğde (Kaşık et al., 2001; Berber et al., 2022); Osmaniye (Solak et al., 2012); Sakarya (Doğan et al., 2021); Şanlıurfa (Kaya, 2015); Tokat (Yıldız et al., 2019); Trabzon (Akata et al., 2014); Uşak (Türkoğlu and Yağız, 2012); Van (Demirel et al., 2015); Yozgat (Kırış et al., 2012; Türkecul and Işık, 2016).

Helvella acetabulum (L.) Quél.: Adıyaman (Kaya, 2005, 2010); Ankara (Güler and Mutlu, 2003; Akata et al., 2019); Antalya (Öztürk et al., 2003); Artvin (Demirel and Işıloğlu, 1993); Aydın (Allı et al., 2007); Batman (Demir et al., 2007); Bingöl (Uzun et al., 2017); Bitlis (Kaya, 2001); Bolu (Yağız et al., 2006a); Burdur (Solak et al., 2013); Çankırı (Öztürk et al., 2010); Denizli (Köse et al., 2006; Gezer et al., 2007a,b; 2008, 2011a,b; Türkoğlu, 2008; Kaşık et al., 2013); Diyarbakır (Acar et al., 2015; Demirel et al., 2016); Erzincan (Keleş and Demirel, 2010; Allı, 2011); Erzurum (Öztürk et al., 2000; Keleş et al., 2016; Sadullahoğlu et al., 2021);

Eskişehir (Köstekci et al., 2005); Gaziantep (Uzun et al., 2015); İzmir (Solak et al., 1999); Kahramanmaraş (Kaya, 2006, 2009; Kaya et al., 2009); Karaman (Kaşık et al., 2000; Doğan and Öztürk, 2006); Kastamonu (Yağız et al., 2006b); Kayseri (Kaşık et al., 2002, 2003; Türkoğlu and Gezer, 2006); Kilis (Solak et al., 2014a); Konya (Kaşık et al., 2010; Çevik et al., 2021); Kütahya (Allı et al., 2017); Malatya (Gücin, 1987; Işıloğlu and Öder, 1995a; Işıloğlu, 1997); Mersin (Doğan et al., 2012; Güngör et al., 2015, 2016); Muğla (Işıloğlu, 2001; Tırpan et al., 2018); Niğde (Berber et al., 2022); Osmaniye (Günay and Demirel, 2006); Sakarya (Doğan et al., 2021); Samsun (Pekşen and Karaca, 2003); Şanlıurfa (Kaya, 2015); Tokat (Yıldız et al., 2019); Trabzon (Sesli, 2007; Akata et al., 2014); Uşak (Türkoğlu et al., 2008); Van (Demirel et al., 2015; Şelem et al., 2019); Yalova (Allı et al., 2017); Yozgat (Kırış et al., 2012; Türkekul and Işık, 2016).

Helvella atra J. König: Kırıkkale (Güler et al., 2013); Konya (Çevik et al., 2021); Kütahya (Allı et al., 2017); Mersin (Doğan et al., 2010); Rize (Sesli, 2007); Samsun (Pekşen ve Karaca, 2003); Trabzon (Akata et al., 2014; Akata ve Uzun, 2017); Tokat (Türkekul, 2008), Yalova (Doğan et al., 2021).

Helvella compressa (Snyder) N.S. Weber: Gaziantep (Uzun et al., 2015).

Helvella corium (O. Weberb.) Masee: Hakkâri (Kesici and Uzun, 2021).

Helvella costifera Nannf.: Adıyaman (Kaya et al., 2004; Kaya, 2005, 2010); Ankara (Akata et al., 2019), Erzincan (Allı, 2011); Gaziantep (Kaya et al., 2014; Uzun et al., 2015); Kahramanmaraş (Kaya, 2009); Kütahya (Allı et al., 2017); Şanlıurfa (Kaya, 2015).

Helvella crispa (Scop.) Fr.: Adana (Işıloğlu and Öder, 1995b); Antalya (Solak et al., 2014b); Bartın (Özkazanç and Yeşilbaş Keleş, 2019); Gümüşhane (Akata et al., 2016); İstanbul (Akata, 2017); İzmir (Yılmaz Ersel and Solak, 2004); Kahramanmaraş (Kaya, 2009); Kocaeli (Akata et al., 2018); Manisa (Gücin and Öner, 1982); Mersin (Işıloğlu and Watling, 1992); Muğla (Işıloğlu, 2001; Güngör et al., 2016); Sakarya (Doğan et al., 2021); Samsun (Pekşen and Karaca, 2003); Sinop (Afyon et al., 2004); Trabzon (Akata et al., 2014; Akata and Uzun, 2017); Zonguldak (Afyon and Konuk, 2002).

Helvella cupuliformis Dissing & Nannf.: Yalova (Allı et al., 2017).

Helvella elastica Bull.: Adana (Güngör et al., 2015); Artvin (Demirel et al., 2017); Balıkesir (Altuntaş et al., 2017); Bursa, Kocaeli, Sakarya, Yalova (Doğan et al., 2021); Denizli (Türkoğlu et al., 2007); Gümüşhane (Akata et al., 2016); İstanbul (Akata, 2017); Kocaeli (Akata et al., 2018); Kütahya (Allı et al., 2017); Trabzon (Akata et al., 2014; Akata ve Uzun, 2017).

Helvella ephippium Lév.: Karaman (Kaşık et al., 2000); Kütahya (Allı et al., 2017).

Helvella fibrosa (Wallr.) Korf: Kahramanmaraş (Kaya, 2009); İzmir-Manisa road (Solak, 1998); Konya (Çevik

et al., 2021); Niğde (Berber et al., 2022); Sakarya (Doğan et al., 2021).

Helvella fusca Gillet: Aydın (Allı et al., 2006; Allı ve Işıloğlu, 2007; Allı et al., 2007); Niğde (Berber et al., 2022).

Helvella helvellula (Durieu & Mont.) Dissing: Aydın (Güngör et al., 2015).

Helvella lactea Boud.: Tokat (Türkekul, 2003); Trabzon (Akata et al., 2014); Trabzon (Akata ve Uzun, 2017).

Helvella lacunosa Afzel.: Adana (Doğan ve Kurt, 2016); Adıyaman (Kaya et al., 2004; Kaya, 2005, 2009, 2010); Ağrı (Demirel et al., 2002); Aksaray (Doğan ve Türkoğlu, 2006); Ankara (Akata et al., 2009); Antalya (Solak et al., 2014b); Artvin (Demirel ve Işıloğlu, 1993); Aydın (Allı et al., 2006, 2007); Batman (Demir et al., 2007); Bingöl (Uzun et al., 2017); Bitlis (Kaya, 2001); Bolu (Yağız et al., 2006a); Bursa, Kocaeli, Sakarya (Doğan et al., 2021); Çankırı (Öztürk et al., 2010); Denizli (Köse et al., 2006; Gezer et al., 2007a,b, 2008, 2011; Türkoğlu et al., 2007; Türkoğlu, 2008); Diyarbakır (Demirel et al., 2016); Erzincan (Keleş ve Demirel, 2010; Allı, 2011); Erzurum (Öztürk et al., 2000; Demirel et al., 2003; Keleş et al., 2016; Sadullahoğlu et al., 2021); Eskişehir (Köstekci et al., 2005); Gaziantep (Kaya et al., 2014); Hatay (Güngör et al., 2016); Iğdır (Uzun, 2010); İstanbul (Akata, 2017); Kahramanmaraş (Kaya, 2006, 2009; Kaya et al., 2009); Karabük (Yağız et al., 2005); Kars (Demirel ve Uzun, 1996); Kastamonu (Yağız et al., 2006b; Özkazanç ve Yılmaz Oğuz, 2017); Kayseri (Kaşık et al., 2002); Kilis (Solak et al., 2014a); Konya (Alkan et al., 2010; Çevik et al., 2021); Kütahya (Allı et al., 2017); Malatya (Gücin, 1987; Işıloğlu ve Öder, 1995a; Işıloğlu, 1997); Manisa (Gücin ve Öner, 1982); Mersin (Işıloğlu ve Öder, 1995b); Muğla (Işıloğlu, 2001; Güngör et al., 2016); Nevşehir (Doğan ve Türkoğlu, 2006); Osmaniye (Günay ve Demirel, 2006); Tokat (Türkekul ve Zülfükaroğlu, 2010); Trabzon (Akata et al., 2014); Tunceli (Demirel ve Nacar, 2000); Uşak (Türkoğlu et al., 2008); Van (Demirel et al., 2015; Şelem et al., 2019); Yozgat (Türkekul ve Işık, 2016).

Helvella latispota Boud.: Erzincan (Keleş ve Demirel, 2010); Kütahya (Allı et al., 2017).

Helvella leucopus Pers.: Adana (Işıloğlu ve Watling, 1992); Adıyaman (Kaya et al., 2004; Kaya, 2005; Kaya, 2009a,b); Afyonkarahisar (Oskay ve Kalyoncu, 2006); Balıkesir (Solak et al., 2002; Yılmaz ve Işıloğlu, 2002); Bingöl (Uzun et al., 2009); Bitlis (Kaya, 2001); Bursa (Solak ve Gücin, 1992); Denizli (Köse et al., 2006; Türkoğlu et al., 2007; Gezer et al., 2008); Diyarbakır (Acar et al., 2015; Demirel et al., 2016); Erzincan (Keleş ve Demirel, 2010; Allı, 2011); Erzurum (Öztürk et al., 2000); Gaziantep (Kaya et al., 2012); Iğdır (Uzun, 2010); Isparta (Güngör et al., 2015); İzmir (Solak et al., 1999); Kahramanmaraş (Kaya, 2006, 2009; Kaya et al., 2009); Karabük (Yağız et al., 2005); Kayseri (Atıla ve Kaya, 2013); Malatya (Gücin, 1987); Malatya (Işıloğlu, 1997; Işıloğlu ve Öder, 1995a); Muğla (Işıloğlu, 2001); Niğde (Berber et al., 2022); Samsun (Pekşen ve Karaca,

2003); Şanlıurfa (Kaya, 2015); Trabzon (Sesli, 2007); Van (Demirel et al., 2015; Şelem et al., 2019); Yozgat (Kırış et al., 2012).

Helvella macropus (Pers.) P. Karst.: Trabzon (Akata ve Kaya, 2012b).

Helvella monachella (Scop.) Fr.: Gaziantep (Kaya et al., 2019).

Helvella palustris Peck: Kütahya (Allı et al., 2017).

Helvella pezizoides Afzel.: Trabzon (Akata ve Kaya, 2012b).

Helvella philonotis Dissing: Aydın (Allı et al., 2006; Allı and Işıloğlu, 2007; Allı et al., 2007).

Helvella phlebophora Pat. & Doass.: Trabzon (Uzun, 2019).

Helvella solitaria P. Karst.: Antalya (Öztürk et al., 2003); Aydın (Allı et al., 2006; Allı et al., 2007); Balıkesir (Altuntaş et al., 2017); Bingöl (Uzun et al., 2017).

Helvella spadicea Schaeff.: Aksaray (Doğan ve Türkoğlu, 2006; Türkoğlu et al., 2007); Ankara (Öztürk et al., 2017); Denizli (Köse et al., 2006); Karaman (Öztürk et al., 2001; Doğan ve Öztürk, 2006); Kayseri (Kaşık et al., 2002); Konya (Kaşık ve Öztürk, 2000; Aktaş et al., 2003; Çevik et al., 2021); Mersin (Doğan et al., 2007); Nevşehir (Doğan ve Türkoğlu, 2006).

Paxina queletii (Bres.) Stangl: Adıyaman (Kaya, 2005; 2009, 2010); Ağrı (Demirel et al., 2002); Aydın (Allı et al., 2007); Balıkesir (Altuntaş et al., 2017); Bingöl (Uzun et al., 2017); Bolu (Yağız et al., 2006a); Denizli (Türkoğlu, 2008); Diyarbakır (Acar et al., 2015); Erzincan (Keleş ve Demirel, 2010; Allı, 2011); Erzurum (Keleş et al., 2016); Gaziantep (Uzun et al., 2015); Kahramanmaraş (Kaya, 2009); Karaman (Doğan ve Öztürk, 2006); Kastamonu (Yağız et al., 2006b); Kütahya (Allı et al., 2017); Malatya (Gücin, 1987); Mersin (Doğan et al., 2007); Trabzon (Akata et al., 2014); Uşak (Türkoğlu ve Yağız, 2012); Van (Demirel ve Koçak, 2016; Şelem et al., 2019); Yozgat (Kırış et al., 2012; Türkekül ve Işık, 2016).

Incertae Sedis

Coprotus disculus Kimbr., Luck-Allen & Cain: Hakkâri (Acar and Quijada, 2022).

Coprotus ochraceus (P. Crouan & H. Crouan) J. Moravec: Siirt (Akçay et al., 2022).

Psilopezia nummularia Berk.:Burdur (Çolak and Kaygusuz, 2017).

Morchellaceae Rchb.

Disciotis venosa (Pers.) Arnould: Balıkesir (Solak et al., 2002); İzmir (Yılmaz Ersel and Solak, 2004).

Morchella americana Clowez & Matherly: Van (Doğan et al., 2016).

Morchella anatolica Işıloğlu, Spooner, Allı & Solak: Muğla (Işıloğlu et al., 2010).

Morchella angusticeps Peck: Antalya (Solak et al., 2014b); Aydın (Allı et al., 2006, 2007); Bingöl (Uzun et al., 2017); Çanakkale (Solak et al., 2003); Denizli (Gezer et al., 2008; Türkoğlu, 2008); Erzincan (Allı, 2011); Erzurum (Sadullahoğlu et al., 2021); Hatay (Baba et al., 2013); Muğla (Güngör et al., 2016); Osmaniye (Solak et al., 2012); Uşak (Türkoğlu et al., 2008); Yozgat (Türkekül and Işık, 2016).

Morchella atrotomentosa (Moser) Bride: Aydın (Allı et al., 2006).

Morchella conifericola Taşkın, Büyükalaca & H.H. Doğan: Kahramanmaraş, Kastamonu, Kayseri (Taşkın et al., 2016).

Morchella costata Pers.: Antalya (Solak et al., 2014b); Ardahan (Uzun, 2010); Balıkesir (Solak et al., 2002); Çanakkale (Solak et al., 2003); İzmir (Solak et al., 1999); Kars (Demirel and Uzun, 1996); Kastamonu (Yağız et al., 2006b); Muğla (Güngör et al., 2016); Yozgat (Türkekül and Işık, 2016).

Morchella crassipes (Vent.) Pers.: Aydın (Allı et al., 2006, 2007); Bingöl (Uzun et al., 2009); Denizli (Türkoğlu, 2008); Erzincan (Allı, 2011); Hatay (Güngör et al., 2016); Isparta (Afyon, 1994); Muğla (Güngör et al., 2016); Osmaniye (Solak et al., 2012).

Morchella deliciosa Fr.: Adıyaman (Kaya et al., 2004; Kaya, 2005, 2009); Antalya (Solak et al., 2014b); Ardahan (Uzun, 2010); Artvin (Demirel et al., 2017); Balıkesir (Solak et al., 2002); Bingöl (Uzun et al., 2017); Bursa (Solak and Gücin, 1992); Çorum (Alkan et al., 2016); Denizli (Kaşık et al., 2013); Diyarbakır (Acar et al., 2015); Gaziantep (Kaya, 2009; Kaya et al., 2014; Uzun et al., 2015); Hatay (Baba et al., 2014); İzmir (Solak et al., 1999); Kahramanmaraş (Kaya, 2009; Kaya et al., 2009); Karaman (Öztürk et al., 2001); Kastamonu, Sinop (Afyon and Konuk, 2001a); Kayseri (Atıla and Kaya, 2013); Konya (Alkan et al., 2010; Kaşık et al., 2010); Kütahya (Allı et al., 2017); Mersin (Doğan et al., 2007, 2010, 2012); Muğla (Güngör et al., 2016); Osmaniye (Solak et al., 2012); Sinop (Afyon et al., 2004); Şanlıurfa (Kaya, 2015); Uşak (Türkoğlu and Yağız, 2012); Van (Demirel et al., 2015).

Morchella dunalii Boud.: Antalya, Aydın, Çanakkale, Denizli, Kars, Mersin, Muğla, Samsun, Uşak, Yozgat (Doğan et al., 2016).

Morchella elata Fr.: Adana (Doğan and Kurt, 2016); Adıyaman (Kaya et al., 2004; Kaya, 2005, 2009); Antalya (Solak et al., 2014b); Aydın (Allı et al., 2006, 2007); Batman (Demir et al., 2007); Bayburt (Keleş et al., 2016); Bolu (Yağız et al., 2006a); Çorum (Kaşık et al., 2011); Denizli (Köse et al., 2006; Gezer et al., 2007a,b, 2008, 2011; Türkoğlu et al., 2007; Türkoğlu, 2008; Kaşık et al., 2013); Diyarbakır (Acar et al., 2015; Demirel et al., 2016); Erzincan (Allı, 2011); Gaziantep (Kaya, 2009; Uzun et al., 2015); Hatay (Baba et al., 2013); Isparta (Güngör et al., 2015); İzmir (Solak et al., 1999); Kahramanmaraş (Kaya, 2006, 2009; Kaya et al., 2009); Kastamonu (Akata et al., 2010); Kastamonu, Sinop, Bolu (Afyon and Konuk, 2001a); Kayseri (Kaşık

et al., 2003; Türkoğlu and Gezer, 2006); Konya (Aktaş et al., 2003; Alkan et al., 2010; Çevik et al., 2021); Kütahya (Allı et al., 2017); Malatya (Işıloğlu, 1997); Mersin (Doğan et al., 2007; Güngör et al., 2016); Muğla (Işıloğlu, 2001; Yılmaz Ersel and Solak, 2005); Osmaniye (Günay and Demirel, 2006; Solak et al., 2012); Samsun (Pekşen and Karaca, 2003); Sinop (Afyon et al., 2004); Tokat (Yıldız et al., 2019); Uşak (Türkoğlu et al., 2008); Van (Demirel et al., 2015; Şelem et al., 2019); Yozgat (Kırış et al., 2012; Türkekul and Işık, 2016).

Morchella esculenta (L.) Pers.: Adana (Işıloğlu and Öder, 1995b; Doğan and Kurt, 2016); Adıyaman (Kaya et al., 2004; Kaya, 2005, 2009a,b); Afyonkarahisar (Oskay and Kalyoncu, 2006); Ağrı (Demirel et al., 2002); Aksaray (Doğan and Türkoğlu, 2006; Türkoğlu et al., 2007); Ankara (Akata et al., 2009); Antalya (Gezer, 2000; Öztürk et al., 2003; Solak et al., 2014b); Ardahan (Uzun, 2010); Artvin (Demirel, 1994, 1997; Demirel et al., 2010); Aydın (Allı et al., 2006, 2007); Balıkesir (Solak et al., 2002; Altuntaş et al., 2017); Batman (Demir et al., 2007); Bayburt (Keleş et al., 2016); Bingöl (Uzun et al., 2017); Bolu (Yağız et al., 2006a); Burdur (Solak et al., 2013); Bursa (Solak and Gücin, 1992); Çanakkale (Solak et al., 2003); Çankırı (Öztürk et al., 2010); Çorum (Alkan et al., 2016); Denizli (Köse et al., 2006; Gezer et al., 2007a,b, 2008, 2011; Türkoğlu et al., 2007; Türkoğlu, 2008; Kaşık et al., 2013); Diyarbakır (Acar et al., 2015); Edirne (Watling and Gregory, 1977; Stojchev et al., 1998); Erzincan (Keleş and Demirel, 2010; Allı, 2011); Erzurum (Demirel et al., 2003; Sadullahoğlu et al., 2021); Gaziantep (Kaya, 2009; Kaya et al., 2012; Uzun et al., 2015); Iğdır (Uzun, 2010); Isparta (Afyon, 1994; Güngör et al., 2015); İzmir (Solak et al., 1999); Kahramanmaraş (Kaya, 2006, 2009; Kaya et al., 2009); Karabük (Yağız et al., 2005); Karabük, Bolu (Afyon and Konuk, 2001a); Karaman (Kaşık et al., 2000; Öztürk et al., 2001; Doğan and Öztürk, 2006); Kars (Demirel and Uzun, 1996); Kastamonu (Yağız et al., 2006b); Kastamonu, Bolu (Afyon and Konuk, 2001a); Kayseri (Kaşık et al., 2002, 2003; Türkoğlu and Gezer, 2006); Konya (Aktaş et al., 2003; Alkan et al., 2010; Kaşık et al., 2010; Çevik et al., 2021); Kütahya (Allı et al., 2017); Malatya (Gücin, 1987; Işıloğlu and Öder, 1995a); Manisa (Gücin and Öner, 1982); Mersin (Işıloğlu and Watling, 1992; Doğan et al., 2007, 2010, 2012); Muğla (Işıloğlu, 2001; Solak et al., 2005; Güngör et al., 2016); Niğde (Kaşık et al., 2001a,b; Berber et al., 2022); Osmaniye (Günay and Demirel, 2006; Solak et al., 2012); Sakarya (Doğan et al., 2021); Samsun (Pekşen and Karaca, 2003); Sinop (Afyon et al., 2004); Şanlıurfa (Kaya, 2015); Tokat (Türkekul, 2003, 2008; Türkekul and Zülükaroğlu, 2010; Yıldız et al., 2019); Trabzon (Baydar and Sesli, 1994; Sesli, 2007; Akata et al., 2014; Akata and Uzun, 2017); Tunceli (Demirel and Nacar, 2000); Uşak (Türkoğlu et al., 2008); Van (Demirel et al., 2015; Şelem et al., 2019); Yalova (Allı et al., 2017); Yozgat (Kırış et al., 2012; Türkekul and Işık, 2016).

Morchella esculentoides M. Kuo, Dewsbury, Moncalvo & S.L. Stephenson: Van (Şelem et al., 2019).

Morchella eximia Boud.: Antalya (Solak et al., 2014b); Muğla (Güngör et al., 2016); Osmaniye (Solak et al., 2012).

Morchella fekeensis H.H. Doğan, Taşkın & Büyükalaca: Adana, Kahramanmaraş, Sivas, Yozgat (Taşkın et al., 2016).

Morchella fluvialis Clowez, P. Alvarado, M. Becerra, Bilbao & P.-A. Moreau: Adana (Doğan et al., 2016).

Morchella galilaea Masaphy & Clowez: Adana (Taşkın et al., 2015).

Morchella hortensis Boud.: Antalya (Solak et al., 2014b); Muğla (Yılmaz Ersel and Solak, 2005; Güngör et al., 2016); Osmaniye (Solak et al., 2012).

Morchella importuna M. Kuo, O'Donnell & T.J. Volk: Adana, Antalya, Mersin, Kastamonu, Samsun, Yozgat (Doğan et al., 2016).

Morchella inamoena Boud.: Muğla (Güngör et al., 2016).

Morchella intermedia Boud.: Antalya (Solak et al., 2014b); Bolu (Yağız et al., 2006a); Çanakkale (Solak et al., 2003); Manisa (Gücin and Öner, 1982).

Morchella magnispora Büyükalaca, H.H. Doğan & Taşkın: Adana, Aydın, Kahramanmaraş, Mersin, Muğla, Uşak (Taşkın et al., 2016).

Morchella mediterraneensis Taşkın, Büyükalaca & H.H. Doğan: Adana, Denizli, Kahramanmaraş, Kastamonu, Konya, Kayseri, Mersin, (Taşkın et al., 2016).

Morchella populiphila M. Kuo, M.C. Carter & J.D. Moore: Erzurum (Sadullahoğlu et al., 2021); Van (Acar and Uzun, 2017).

Morchella prava Dewsbury, Moncalvo, J.D. Moore & M. Kuo: Van (Keleş et al., 2018; Şelem et al., 2019).

Morchella pseudoviridis Jacquet.: Muğla (Yılmaz Ersel and Solak, 2005; Güngör et al., 2016); Osmaniye (Solak et al., 2012).

Morchella rielana Boud.: Antalya (Solak et al., 2014b); Denizli (Kaşık et al., 2013).

Morchella semilibera DC.: Adıyaman (Kaya, 2005, 2009a,b); Aksaray (Türkoğlu et al., 2007); Ankara (Güler and Mutlu, 2003); Bayburt (Uzun et al., 2004; Keleş et al., 2016); Bingöl (Uzun et al., 2009); Çorum (Alkan et al., 2016); Diyarbakır (Acar et al., 2015; Demirel et al., 2016); Erzincan (Keleş and Demirel, 2010; Allı, 2011); Gaziantep (Uzun et al., 2015); Kahramanmaraş (Kaya, 2009; Kaya et al., 2009); Karaman (Doğan ve Öztürk, 2006); Kayseri (Kaşık et al., 2002, 2003; Türkoğlu and Gezer, 2006); Konya (Kaşık et al., 2010); Kütahya (Allı et al., 2017); Nevşehir (Doğan and Türkoğlu, 2006); Samsun (Pekşen and Karaca, 2003); Tokat (Türkekul, 2003); Trabzon (Sesli, 2007); Uşak (Türkoğlu and Yağız, 2012); Van (Demirel et al., 2015; Şelem et al., 2019); Yozgat (Kırış et al., 2012).

Morchella steppicola Zerova: Kırşehir (Alkan et al., 2019).

Morchella tridentina Bres.: Muğla (Yılmaz Ersel and Solak, 2005; Güngör et al., 2016); Adana, Antalya, Aydın, Çanakkale, Kahramanmaraş, Kastamonu, Konya, Mersin, Muğla, Samsun, Uşak (Doğan et al., 2016); Denizli (Kaygusuz et al., 2019).

Morchella vaporaria Brond.: Konya (Çelik et al., 2020).

Verpa bohemica (Krombh.) J. Schröt.: Adıyaman (Kaya, 2010); Artvin (Demirel et al., 2017); Bingöl (Uzun et al., 2017); Diyarbakır (Acar et al., 2015); Erzincan (Keleş and Demirel, 2010; Allı, 2011); Erzurum (Sadullahoğlu et al., 2021); Konya (Çevik et al., 2021); Mersin (Doğan et al., 2007); Tokat (Yıldız et al., 2019); Van (Demirel et al., 2015).

Verpa conica (O.F. Müll.) Sw.: Adana (Işıloğlu ve Watling, 1992; Işıloğlu ve Öder, 1995b); Adıyaman (Kaya, 2005, 2009a,b); Aydın (Allı et al., 2007); Balıkesir (Solak et al., 2002); Bayburt (Uzun et al., 2004); Bingöl (Uzun et al., 2017); Bolu (Yağız et al., 2006a); Diyarbakır (Acar et al., 2015; Demirel et al., 2016); Erzincan (Allı, 2011); Giresun (Sesli, 2007); Kahramanmaraş (Kaya, 2006, 2009); Muğla (Solak ve Yılmaz Ersel, 2005); Niğde (Berber et al., 2022); Samsun (Sesli, 1999; Pekşen ve Karaca, 2003); Van (Demirel et al., 2015).

Otideaaceae Eckblad

Otidea alutacea (Pers.) Masee: Artvin (Demirel et al., 2004); Balıkesir (Altuntaş et al., 2017); Bursa, Sakarya (Doğan et al., 2021); Gümüşhane (Uzun et al., 2006); Konya (Çevik et al., 2021); Rize (Keleş et al., 2014); Trabzon (Akata et al., 2014; Akata and Uzun, 2017); Uşak (Türkoğlu and Yağız, 2012).

Otidea bufonia (Pers.) Boud.: Denizli (Allı et al., 2008).

Otidea cantharella (Fr.) Quél.: Artvin (Demirel et al., 2017); Balıkesir (Şen et al., 2014); Erzincan (Keleş and Demirel, 2010); Karabük (Yağız et al., 2005); Rize, Trabzon (Sesli, 2007); Trabzon (Sesli, 1998); Uşak (Türkoğlu et al., 2008); Van (Demirel et al., 2015).

Otidea cochleata (L.) Fuckel: Balıkesir (Altuntaş et al., 2017); Manisa (Gücin and Öner, 1982a); Trabzon (Akata et al., 2014).

Otidea leporina (Batsch) Fuckel: Manisa (Gücin and Öner, 1982a,b).

Otidea nannfeldtii Harmaja: Balıkesir (Altuntaş et al., 2021).

Otidea onotica (Pers.) Fuckel: Ankara (Akata et al., 2009); Gümüşhane (Akata et al., 2016); Kocaeli (Akata et al., 2018) Trabzon (Akata et al., 2014; Akata and Uzun, 2017).

Pezizaceae Dumort.

Adelphella babingtonii (Berk. & Broome) Pfister, Matočec & I. Kušan: Bolu (Sesli et al., 2020).

Galactinia granulosa (Gillet) Le Gal: Adıyaman (Kaya, 2009a,b); Antalya (Öztürk et al., 2003); Aydın (Allı et al., 2007); Konya (Alkan et al., 2010; Kaşık et al., 2010); Mersin (Doğan et al., 2002; Doğan et al., 2010).

Geoscypha ampelina (Gillet) Van Vooren & Dougoud: Denizli (Türkoğlu, 2008).

Geoscypha violacea (Pers.) Lambotte: Adıyaman (Kaya, 2009a,b); Antalya (Solak et al., 2014b); Eskişehir (Köstekci et al., 2005); Şanlıurfa (Kaya, 2015).

Hydnobolites cerebriformis Tul. & C. Tul.: Rize, Trabzon (Uzun and Kaya, 2018).

Iodophanus carneus (Pers.) Korf: Bingöl (Uzun et al., 2017).

Legaliana badia (Pers.) Van Vooren: Ankara (Güler and Mutlu, 2003); Bingöl (Uzun et al., 2009); Bursa, Yalova (Doğan et al., 2021); Gümüşhane (Akata et al., 2016); Manisa (Gücin ve Öner, 1982); Trabzon (Akata ve Uzun, 2017); Yozgat (Türkecul ve Işık, 2016).

Marcelleina atrovioleacea Brumm.: Gaziantep (Uzun et al., 2018).

Marcelleina persoonii (P. Crouan & H. Crouan) Brumm.: Balıkesir (Solak et al., 2002).

Marcelleina rickii (Rehm) Graddon: Gaziantep (Uzun et al., 2018).

Pachyella celtica (Boud.) Häffner: Antalya (Kaşık et al., 2002); Denizli (Türkoğlu, 2008); Kocaeli, Sakarya (Doğan et al., 2021).

Pachyella clypeata (Schwein.) Le Gal: Trabzon (Uzun and Kaya, 2019).

Pachyphlodes citrina (Berk. & Broome) Doweld: Rize, Trabzon (Uzun and Kaya, 2018).

Pachyphlodes conglomerata (Berk. & Broome) Doweld: Giresun, Trabzon (Uzun and Kaya, 2018).

Paragalactinia michelii (Boud.) Van Vooren: Mersin (Doğan et al., 2002).

Paragalactinia succosa (Berk.) Van Vooren: Artvin (Demirel et al., 2017); Gümüşhane (Akata et al., 2016); Kocaeli (Doğan et al., 2021); Konya (Çevik et al., 2021); Trabzon (Sesli, 1998b; Akata et al., 2014); Yozgat (Türkecul and Işık, 2016).

Paragalactinia succosella (Le Gal & Romagn.) Van Vooren: Aydın (Çolak and Kaygusuz, 2017b).

Peziza ammophila Durieu & Lév.: Mersin (Akata and Yaprak, 2013).

Peziza arenaria Osbeck: Adıyaman (Kaya, 2010).

Peziza arvernensis Roze & Boud.: Denizli (Türkoğlu, 2008; Gezer et al., 2011); Kahramanmaraş (Kaya, 2009); Karaman (Kaşık et al., 2002); Kütahya (Allı et al., 2017); Sakarya (Doğan et al., 2021); Trabzon (Akata et al., 2014); Yozgat (Kırış et al., 2012; Türkecul ve Işık, 2016).

Peziza cerea Sowerby: Trabzon (Baydar ve Sesli, 1994; Akata ve Uzun, 2017).

Peziza depressa Pers.: Artvin (Demirel et al., 2017); Bitlis (Kaya, 2001); Kastamonu (Akata et al., 2010); Kütahya (Allı et al., 2017); Muğla (Güngör ve Allı, 2016); Osmaniye (Solak et al., 2012); Sakarya (Doğan et al., 2021); Tokat (Sesli and Türkekül, 2000); Trabzon (Sesli, 2007; Akata et al., 2014).

Peziza domiciliana Cooke: Aydın (Allı et al., 2007); Karaman (Kaşık et al., 2002); Kocaeli (Akata et al., 2018); Kütahya (Allı et al., 2017); Trabzon (Akata et al., 2014); Van (Demirel et al., 2015).

Peziza echinospora P. Karst.: Antalya (Güngör et al., 2014).

Peziza fimeti (Fuckel) E.C. Hansen: Kütahya (Allı et al., 2017); Niğde (Berber et al., 2022); Van (Uzun et al., 2014; Demirel et al., 2015); Yozgat (Türkekül and Işık, 2016).

Peziza granularis Donadini: Hakkâri (Acar and Uzun, 2016).

Peziza lobulata (Velen.) Svrček: Muğla (Güngör et al., 2015).

Peziza micropus Pers.: Denizli (Türkoğlu, 2008); Muğla (Güngör and Allı, 2016); Sakarya (Doğan et al., 2021).

Peziza moravecii (Svrček) Donadini: Aksaray (Doğan and Türkoğlu, 2006).

Peziza pseudoviolacea Donadini: Adıyaman (Kaya, 2015); Gaziantep (Uzun et al., 2015).

Peziza punctispora (Pfister) Donadini: Muğla (Çolak et al., 2015).

Peziza repanda Wahlenb.: Adana (Işıloğlu and Watling, 1992); Ağrı (Demirel et al., 2002); Bingöl (Uzun et al., 2009).

Peziza saniosa Schrad.: Trabzon (Akata and Kaya, 2012a; Akata and Uzun, 2017).

Peziza varia (Hedw.) Alb. & Schwein.: Diyarbakır (Acar et al., 2015); Karaman (Öztürk et al., 2001).

Peziza vesiculosa Bull.: Antalya (Gezer, 2000); Antalya, Muğla (Işıloğlu and Öder, 1995b); Aydın (Allı et al., 2007); Balıkesir (Solak et al., 2002); Denizli (Gezer et al., 2007); Denizli (Gezer et al., 2007); Denizli (Gezer et al., 2008); Denizli (Türkoğlu et al., 2007); Isparta (Afyon, 1994); Karabük (Yağız et al., 2005); Kastamonu (Özkazanç and Yılmaz Oğuz, 2017); Malatya (Işıloğlu, 1997); Van (Demirel and Koçak, 2016).

Phylloscypha boltonii (Quél.) Van Vooren & Hairaud: Mersin (Kaplan et al., 2020).

Phylloscypha phylogena (Cooke) Van Vooren: Diyarbakır (Acar et al., 2015); Mersin (Işıloğlu and Watling, 1992); Yozgat (Türkekül and Işık, 2016).

Plicaria carbonaria Fuckel: Trabzon (Kaya and Uzun, 2018).

Sarcopeziza sicula (Inzenga) Agnello, Loizides & P. Alvarado: Kütahya (Altuntaş et al., 2021).

Sarcosphaera coronaria (Jacq.) J. Schröt.: Adana (Işıloğlu and Öder, 1995b); Adıyaman (Kaya et al., 2004; Kaya, 2010); Ankara (Akata et al., 2009; Öztürk et al., 2017); Antalya (Gezer, 2000; Öztürk et al., 2003; Solak et al., 2014b); Aydın (Allı et al., 2007); Balıkesir (Altuntaş et al., 2017); Bolu (Yağız et al., 2006a); Denizli (Köse et al., 2006; Gezer et al., 2007a,b, 2011; Türkoğlu et al., 2007; Türkoğlu, 2008); Gaziantep (Kaya et al., 2014; Uzun et al., 2015); Hatay (Güngör et al., 2016); İstanbul (Akata, 2017); Kastamonu (Yağız et al., 2006b; Akata et al., 2010); Konya (Öztürk et al., 2000; Alkan et al., 2010; Çevik et al., 2021); Kütahya (Allı et al., 2017); Mersin (Doğan et al., 2010, 2012; Güngör et al., 2015); Muğla (Güngör et al., 2016); Niğde (Öztürk et al., 1997; Berber et al., 2022); Osmaniye (Solak et al., 2012); Sakarya (Doğan et al., 2021); Şanlıurfa (Kaya, 2015); Tokat (Yıldız et al., 2019); Uşak (Türkoğlu et al., 2008); Yozgat (Türkekül and Işık, 2016).

Terfezia arenaria (Moris) Trappe: Aydın (Türkoğlu et al., 2015); Malatya (Işıloğlu and Öder, 1995a).

Terfezia boudieri Chatin: Batman (Demir et al., 2007); Gaziantep (Kaya et al., 2012); Karaman (Doğan and Öztürk, 2006); Niğde (Kaşık et al., 2001); Şanlıurfa (Kaya, 2015); Uşak (Türkoğlu and Yağız, 2012).

Terfezia cistophila Ant. Rodr., Bordallo, Kaounas & A. Morte: Trabzon (Uzun and Kaya, 2019).

Terfezia claveryi Chatin: Adana (Doğan and Kurt, 2016); Denizli, Şanlıurfa, Konya, Aksaray, Diyarbakır, Karaman, Yozgat (Türkoğlu et al., 2015); Konya (Çevik et al., 2021); Niğde (Berber et al., 2022).

Terfezia leptoderma (Tul. & C. Tul.) Tul. & C. Tul.: Uşak (Castellano and Türkoğlu, 2012); Denizli, Uşak (Türkoğlu and Castellano, 2014).

Terfezia olbiensis (Tul. & C. Tul.) Sacc.: Gaziantep (Uzun et al., 2015); Konya, Nevşehir, Uşak (Türkoğlu and Castellano, 2014).

Tirmania pinoyi (Maire) Malençon: İzmir (Yılmaz Ersel and Solak, 2004).

Pseudombrophilaceae Ekanayaka, K.D. Hyde, Q. Zhao & E.B.G. Jones

Pseudombrophila merdaria (Fr.) Brumm.: Gaziantep (Kaya and Uzun, 2015).

Pseudombrophila ripensis (E.C. Hansen) Brumm.: Adıyaman (Kaya, 2015).

Pyronemataceae Corda

Acervus epispertius (Berk. & Broome) Pfister: Trabzon (Akata and Kaya, 2013).

Aleuria aurantia (Pers.) Fuckel: Bartın (Afyon et al., 2000); Eskişehir (Köstekci et al., 2005); Gümüşhane (Akata et al., 2016); İstanbul (Akata, 2017); Kastamonu (Akata et al., 2010; Özkazanç and Yılmaz Oğuz, 2017); Kocaeli (Akata et al., 2018); Kocaeli, Sakarya (Doğan et

al., 2021); Rize (Sesli, 2007); Trabzon (Akata et al., 2014; Akata and Uzun, 2017).

Aleuria exigua Rifai: Gaziantep (Kaya et al., 2016).

Aleuria splendens (Quél.) Gillet: Kocaeli, Sakarya (Doğan et al., 2021).

Anthracobia macrocystis (Cooke) Boud.: Trabzon (Kaya and Uzun, 2018).

Anthracobia melaloma (Alb. & Schwein.) Arnould: Antalya (Allı et al., 2011; Solak et al., 2014b); Niğde (Berber et al., 2022); Trabzon (Akata et al., 2014).

Cheilymenia catenipila J. Moravec: Gaziantep (Kaya et al., 2016).

Cheilymenia fimicola (Bagl.) Dennis: Trabzon (Akata et al., 2012).

Cheilymenia granulata (Bull.) J. Moravec: Trabzon (Akata and Uzun, 2017); İstanbul (Akata, 2017).

Cheilymenia megaspora (Gamundí) J. Moravec: Hakkâri (Kesici and Uzun, 2021).

Cheilymenia pulcherrima (P. Crouan & H. Crouan) Boud.: Gaziantep (Uzun et al., 2018).

Cheilymenia theleboloides (Alb. & Schwein.) Boud.: Adıyaman (Kaya, 2015).

Cheilymenia vitellina (Pers.) Dennis: Gaziantep (Kaya et al., 2016).

Ciliaria confusa (Cooke) Boud.: Elazığ (Sesli et al., 2020).

Genea hispidula Berk. ex Tul. & C. Tul.: Trabzon (Uzun and Kaya, 2019).

Genea klotzschii Berk. & Broome: Samsun (Türkoğlu and Castellano, 2014).

Genea lobulata (Mor.-Arr., J. Gómez & Calonge) P. Alvarado & Mor.-Arr.: Niğde (Berber et al., 2019; Berber et al., 2022).

Genea sphaerica Tul. & C. Tul.: İzmir (Türkoğlu et al., 2015).

Genea verrucosa Vittad.: Muğla (Türkoğlu and Castellano, 2014).

Geopora arenicola (Lév.) Kers: Adana (Doğan and Kurt, 2016); Adıyaman (Kaya, 2019a,b); Ankara (Akata et al., 2019); Aydın (Allı et al., 2007); Bingöl (Uzun et al., 2009); Diyarbakır (Acar et al., 2015); Gaziantep (Kaya et al., 2012, 2014; Uzun et al., 2015); Iğdır (Uzun, 2010); Kahramanmaraş (Kaya, 2009); Karaman (Öztürk et al., 2001; Doğan and Öztürk, 2006); Malatya (Işiloğlu, 1997); Şanlıurfa (Kaya, 2015); Van (Demirel et al., 2015).

Geopora arenosa (Fuckel) S. Ahmad: Adıyaman (Kaya et al., 2004); Aksaray (Türkoğlu et al., 2007); Antalya (Solak et al., 2014b); Aydın (Allı et al., 2007); Balıkesir (Şen et al., 2014); Denizli (Türkoğlu, 2008); Kahramanmaraş (Kaya, 2006); Kayseri (Kaşık et al., 2002, 2003).

Geopora clausa (Tul. & C. Tul.) Burds.: Trabzon (Uzun and Kaya, 2019).

Geopora cooperi Harkn.: Bolu, Denizli, Burdur, Muğla (Türkoğlu et al., 2015); İzmir (Solak et al., 2002).

Geopora sepulta (Fr.) Korf & Burds.: Van (Demirel et al., 2015).

Geopora sumneriana (Cooke) M. Torre: Adana (Doğan and Kurt, 2016); Adıyaman (Kaya, 2009); Ankara (Akata et al., 2019); Balıkesir (Solak et al., 2002); Bingöl (Uzun et al., 2009); Çankırı (Öztürk et al., 2010); Denizli (Köse et al., 2006; Gezer et al., 2011a,b); Gaziantep (Kaya, 2009; Uzun et al., 2015); Kahramanmaraş (Kaya, 2006, 2009; Kaya et al., 2009); Kayseri (Kaşık et al., 2003); Kocaeli (Doğan et al., 2021); Konya (Aktaş et al., 2003; Alkan et al., 2010; Kaşık et al., 2010; Çevik et al., 2021); Kütahya (Allı et al., 2017); Mersin (Doğan et al., 2007, 2010, 2012); Nevşehir (Doğan and Türkoğlu, 2006); Osmaniye (Solak et al., 2012); Tokat (Yıldız et al., 2019); Uşak (Türkoğlu et al., 2008); Van (Demirel et al., 2015); Yozgat (Türkecul and Işık, 2016).

Geopyxis carbonaria (Alb. & Schwein.) Sacc.: Bingöl (Uzun et al., 2010); Muğla (Tırpan et al., 2018).

Geopyxis majalis (Fr.) Sacc.: Gaziantep (Kaya et al., 2016).

Geopyxis vulcanalis (Peck) Sacc.: Konya (Çevik et al., 2021); Gaziantep (Kaya et al., 2016).

Humaria aurantia (Clem.) Häffner Benkert & Krisai & Broome) Lambotte: Gaziantep (Kaya et al., 2016).

Humaria hemisphaerica (F.H. Wigg.) Fuckel: Ankara (Akata et al., 2009); Ardahan (Uzun, 2010); Artvin (Demirel et al., 2017); Bolu (Servi et al., 2010); Gümüşhane (Sesli, 2007; Akata et al., 2016); İstanbul (Akata, 2017); Karaman (Kaşık et al., 2000); Kastamonu (Akata et al., 2010; Özkazanç and Yılmaz Oğuz, 2017); Konya (Çevik et al., 2021); Rize (Keleş et al., 2014); Samsun (Pekşen and Karaca, 2003); Trabzon (Sesli, 1998; Akata et al., 2014; Akata and Uzun, 2017); Kocaeli, Sakarya (Doğan et al., 2021).

Hydnocystis piligera Tul.: Aydın (Kaygusuz et al., 2018).

Hypotarzetta insignis (Berthet & Rioussset) Donadini: Gaziantep (Kaya and Uzun, 2015).

Inermisia gyalectoides (Svrček & Kubička) Dennis & Itzerott: Gaziantep (Uzun et al., 2018); Konya (Çevik et al., 2021).

Kotlabaea deformis (P. Karst.) Svrček: Gaziantep (Kaya et al., 2016).

Lamprospora campylopodis W. D. Buckley: Trabzon (Uzun and Kaya, 2019).

Lamprospora carbonicola Boud.: Gaziantep (Uzun et al., 2018).

Lamprospora dictydiola Boud.: Gaziantep (Uzun et al., 2018).

- Lamprospora miniata* De Not.: Gaziantep (Uzun et al., 2018); Niğde (Berber et al., 2022).
- Melastiza chateri* (W.G. Sm.) Boud.: Trabzon (Akata et al., 2011).
- Melastiza cornubiensis* (Berk. & Broome) J. Moravec: Manisa (Gücin and Öner, 1982a).
- Neottiella rutilans* (Fr.) Dennis: Trabzon (Akata and Kaya, 2013).
- Octospora areolata* (Seaver) Caillet & Moyné: Gaziantep (Uzun et al., 2018).
- Octospora axillaris* (Nees) M.M. Moser: Gaziantep (Uzun et al., 2018).
- Octospora coccinea* (P. Crouan & H. Crouan) Brumm.: Gaziantep (Uzun et al., 2018).
- Octospora excipulata* (Clem.) Benkert: Gaziantep (Uzun et al., 2018).
- Octospora gemmicola* Benkert: Gaziantep (Uzun et al., 2018).
- Octospora grimmiae* Dennis & Itzerott: Gümüşhane (Uzun and Kaya, 2019).
- Octospora itzerottii* Benkert.: Konya (Çevik et al., 2021); Gaziantep (Uzun et al., 2017).
- Octospora leucoloma* Hedw.: Gaziantep, Konya (Uzun et al., 2018); Konya (Çolak and Kaygusuz, 2017); Niğde (Berber et al., 2022).
- Octospora lilacina* (Seaver) Svrček & Kubička: Trabzon (Uzun and Kaya, 2019).
- Octospora musci-muralis* Graddon: Gaziantep (Uzun et al., 2018); Niğde (Berber et al., 2022).
- Octospora neerlandica* Benkert & Brouwer: Niğde (Berber et al., 2022).
- Octospora orthotrichi* (Cooke & Ellis) K.B. Khare & V.P. Tewari: Gaziantep (Uzun et al., 2018).
- Octospora polytrichi* (Schumach.) Caillet & Moyné: Gaziantep (Uzun et al., 2018); Niğde (Berber et al., 2022).
- Octospora rustica* (Velen.) J. Moravec: Gaziantep (Uzun et al., 2018).
- Octospora tuberculata* (Seaver) Caillet & Moyné: Gaziantep, Giresun (Uzun and Kaya, 2022).
- Octospora tuberculatella* (Seaver) Caillet & Moyné: Trabzon (Uzun and Kaya, 2019).
- Parascutellinia violacea* (Velen.) Svrček: Konya (Çevik et al., 2021); Van (Keleş, 2019).
- Picoa juniperi* Vittad.: Afyon, Antalya, Denizli, Elazığ, Konya, Nevşehir (Türkoğlu and Castellano, 2014); Kayseri (Türkoğlu et al., 2015); Konya (Çevik et al., 2021); Niğde (Berber et al., 2022); Uşak (Türkoğlu and Yağız, 2012).
- Picoa lefebvrei* (Pat.) Maire: Elazığ, Şanlıurfa (Gücin et al., 2010); Aksaray, Denizli, Konya (Türkoğlu et al., 2015); Konya (Çevik et al., 2021); Niğde (Berber et al., 2022); Şanlıurfa (Kaya, 2015).
- Pulvinula alba* (Velen.) Svrček: Trabzon (Uzun and Kaya, 2020).
- Pulvinula archeri* (Berk.) Rifai: Gaziantep (Karacan et al., 2015).
- Pulvinula carbonaria* (Fuckel) Boud.: Gaziantep (Karacan et al., 2015).
- Pulvinula convexella* (P. Karst.) Pfister: Ankara (Akata et al., 2019); Gümüşhane, Bayburt (Uzun and Kaya, 2019).
- Pulvinula johannis* Lantieri: Gaziantep (Kaya et al., 2016).
- Pulvinula laeterubra* (Rehm) Pfister: Gaziantep (Karacan et al., 2015).
- Pyronema domesticum* (Sowerby) Sacc.: Gaziantep (Kaya et al., 2016).
- Pyronema omphalodes* (Bull.: Fr.) Fuckel: Konya (Çevik et al., 2021); Gaziantep (Kaya and Uzun, 2015).
- Ramsbottomia crechqueraultii* (P. Crouan & H. Crouan) Benkert & T. Schumach.: Trabzon (Uzun and Kaya, 2019).
- Rhodoscypa ovilla* (Peck) Dissing & Sivertsen: Gümüşhane (Akata et al., 2016); Trabzon (Akata and Kaya, 2013).
- Scutellinia armatospora* Denison: Trabzon (Akata et al., 2011).
- Scutellinia barlae* (Boud.) Maire: Muğla (Allı et al., 2011).
- Scutellinia crinita* (Bull.) Lambotte: Konya (Çevik et al., 2021); Van (Keleş, 2019).
- Scutellinia kerguelensis* (Berk.) Kuntze: Trabzon (Uzun and Kaya, 2021).
- Scutellinia legaliae* Lohmeyer & Häffner: Burdur (Çolak and Kaygusuz, 2018).
- Scutellinia scutellata* (L.) Lambotte: Adıyaman (Kaya, 2010); Bingöl (Uzun et al., 2017); Gümüşhane (Akata et al., 2016); Karaman (Doğan and Öztürk, 2006); Kastamonu (Akata et al., 2010); Konya (Kaşık et al., 2010; Çevik et al., 2021); Kütahya (Allı et al., 2017); Samsun (Pekşen and Karaca, 2003); Sivas (Kırış et al., 2012); Trabzon (Akata et al., 2014; Akata and Uzun, 2017); Van (Demirel and Koçak, 2016); Yalova (Allı et al., 2017).
- Scutellinia trechispora* (Berk. & Broome) Lambotte: Gaziantep (Kaya et al., 2016).
- Scutellinia umbrorum* (Fr.) Lambotte: Gaziantep (Kaya, 2009); Muğla (Güngör and Allı, 2016; Tırpan et al., 2018); Yalova (Allı et al., 2017).

Sepultariella patavina (Cooke & Sacc.) Van Vooren, U. Lindem. & Healy: Gaziantep (Kaya and Uzun, 2015).

Sepultariella semi-immersa (P. Karst.) Van Vooren, U. Lindem. & Healy: Gaziantep (Uzun et al., 2018).

Smardaea planchonis (Dunal ex Boud.) Korf & W.Y. Zhuang: Gaziantep (Kaya et al., 2016).

Sowerbyella rhenana (Fuckel) J. Moravec: Şanlıurfa (Kaya, 2015).

Spooneromyces helveticus Breitenbach & Krazlin: Rize (Keleş et al., 2014).

Stephensia bombycina (Vittad.) Tul. & C. Tul.: Samsun (Türkoğlu and Castellano, 2014).

Tricharina gilva (Boud. ex Cooke) Eckblad: Gaziantep (Kaya and Uzun, 2015).

Tricharina ochroleuca (Bres.) Eckblad: Gaziantep (Kaya et al., 2016).

Tricharina praecox (P. Karst.) Dennis: Gaziantep (Kaya et al., 2016).

Trichophaea gregaria (Rehm) Boud.: Trabzon (Uzun and Kaya, 2019).

Trichophaea hemisphaerioides (Mouton) Graddon: Adana (Doğan and Aktaş, 2010).

Trichophaea pseudogregaria (Rick) Boud.: Van (Keleş and Şelem, 2017).

Trichophaea woolhopeia (Cooke & W. Phillips) Boud.: Konya (Çevik et al., 2021); Muğla (Güngör et al., 2015, 2016).

Trichophaeopsis bicuspis (Boud.) Korf & Erb): Gaziantep (Kaya et al., 2016).

Rhizinaceae Bonord.

Rhizina undulata Fr.: Artvin (Demirel, 1994); Bolu (Yağız et al., 2006); Mersin (Doğan et al., 2010); Sinop (Afyon et al., 2004); Uşak (Türkoğlu and Yağız, 2012).

Sarcoscyphaceae Le Gal ex Eckblad

Komposocypha chudei (Pat. ex Le Gal) Pfister: Gaziantep (Kaya and Uzun, 2018).

Microstoma protractum (Fr.) Kanouse: Balıkesir (Solak et al., 2002).

Pithya cupressina (Batsch) Fuckel: Gaziantep (Kaya and Uzun, 2018); Niğde (Berber et al., 2022).

Pithya vulgaris Fuckel: Karaman (Doğan and Işıloğlu, 2002); Konya (Alkan et al., 2010); Yalova (Allı et al., 2017).

Pseudopithyella minuscula (Boud. & Torrend) Seaver: Gaziantep (Kaya and Uzun, 2018).

Sarcoscypha coccinea (Gray) Boud.: Antalya (Gezer, 2000); Bursa, Yalova (Doğan et al., 2021); Çanakkale (Solak et al., 2003); Denizli (Gezer et al., 2007a,b; Türkoğlu, 2008); Gümüşhane (Akata et al., 2016); İstanbul (Selik, 1964; Akata, 2017); Manisa (Gücin and

Öner, 1982); Muğla (Güngör et al., 2016); Samsun (Pekşen and Karaca, 2000, 2003); Trabzon (Akata et al., 2014; Akata and Uzun, 2017).

Sarcosomataceae Kobayasi

Plectania ericae (Donadini) Roqué: İstanbul (Uzun and Kaya, 2018).

Plectania melastoma (Sowerby) Fuckel: Trabzon (Akata et al., 2012).

Plectania rhytidia (Berk.) Nannf. & Korf: Trabzon (Akata et al., 2012; Akata and Uzun, 2017).

Pseudoplectania melaena (Fr.) Sacc.: Antalya (Allı et al., 2011; Solak et al., 2014).

Pseudoplectania sphagnophila (Pers.) Kreisel: Uşak (Türkoğlu and Yağız, 2012).

Strobiloscypha cupressina B. Perić & Pfister: Gaziantep (Kaya and Uzun, 2018).

Tarzettaceae Ekanayaka, K.D. Hyde, Q. Zhao & E.B.G. Jones

Tarzetta catinus (Holmsk.) Korf & J.K. Rogers: Aydın (Allı et al., 2007); Balıkesir (Yılmaz and Işıloğlu, 2002; Solak et al., 2002); Bolu (Yağız et al., 2006a); Denizli (Türkoğlu, 2008); Erzincan (Allı, 2011); Isparta (Güngör et al., 2015); İzmir (Yılmaz Ersel and Solak, 2004); Kahramanmaraş (Kaya, 2009); Kilis (Solak et al., 2014a); Kocaeli, Sakarya (Doğan et al., 2021); Kütahya (Allı et al., 2017); Mersin (Güngör et al., 2015); Muğla (Güngör et al., 2016; Solak and Yılmaz Ersel, 2005); Trabzon (Akata et al., 2014; Akata and Uzun, 2017).

Tarzetta cupularis (L.) Svrček: Adıyaman (Kaya, 2009); Isparta (Afyon, 1996); Kastamonu (Akata et al., 2010); Trabzon (Akata et al., 2014; Akata and Uzun, 2017).

Tuberaceae F. Berchtold & J. Presl

Choiromyces meandriformis Vittad.: Bolu, Samsun, Uşak (Türkoğlu and Castellano, 2014).

Reddellomyces parvulosporus (G.W. Beaton & Malajczuk) Trappe, Castellano & Malajczuk: Muğla (Ünal et al., 2016).

Reddellomyces westraliensis (G.W. Beaton & Malajczuk) Trappe, Castellano & Malajczuk: Muğla (Ünal et al., 2016).

Tuber aestivum (Wulfen) Spreng.: Antalya, Artvin, Bolu, Burdur, Denizli, Düzce, Hatay, İstanbul, İzmir, Kırklareli, Muğla, Ordu, Osmaniye (Türkoğlu et al., 2015); Konya (Alkan et al., 2018).

Tuber borchii Vittad.: Kahramanmaraş (Kaya, 2009); Konya (Çevik et al., 2021); Aydın, Muğla, Samsun, Tekirdağ (Elliot et al., 2016).

Tuber brumale Vittad.: Niğde (Öztürk et al., 1997); Osmaniye, Samsun (Türkoğlu and Castellano, 2014).

Tuber excavatum Vittad.: Denizli (Türkoğlu and Castellano, 2014); Trabzon (Uzun and Yakar, 2018).

Tuber ferrugineum Vittad.: Antalya, Aydın, Denizli, Muğla (Elliot et al., 2016).

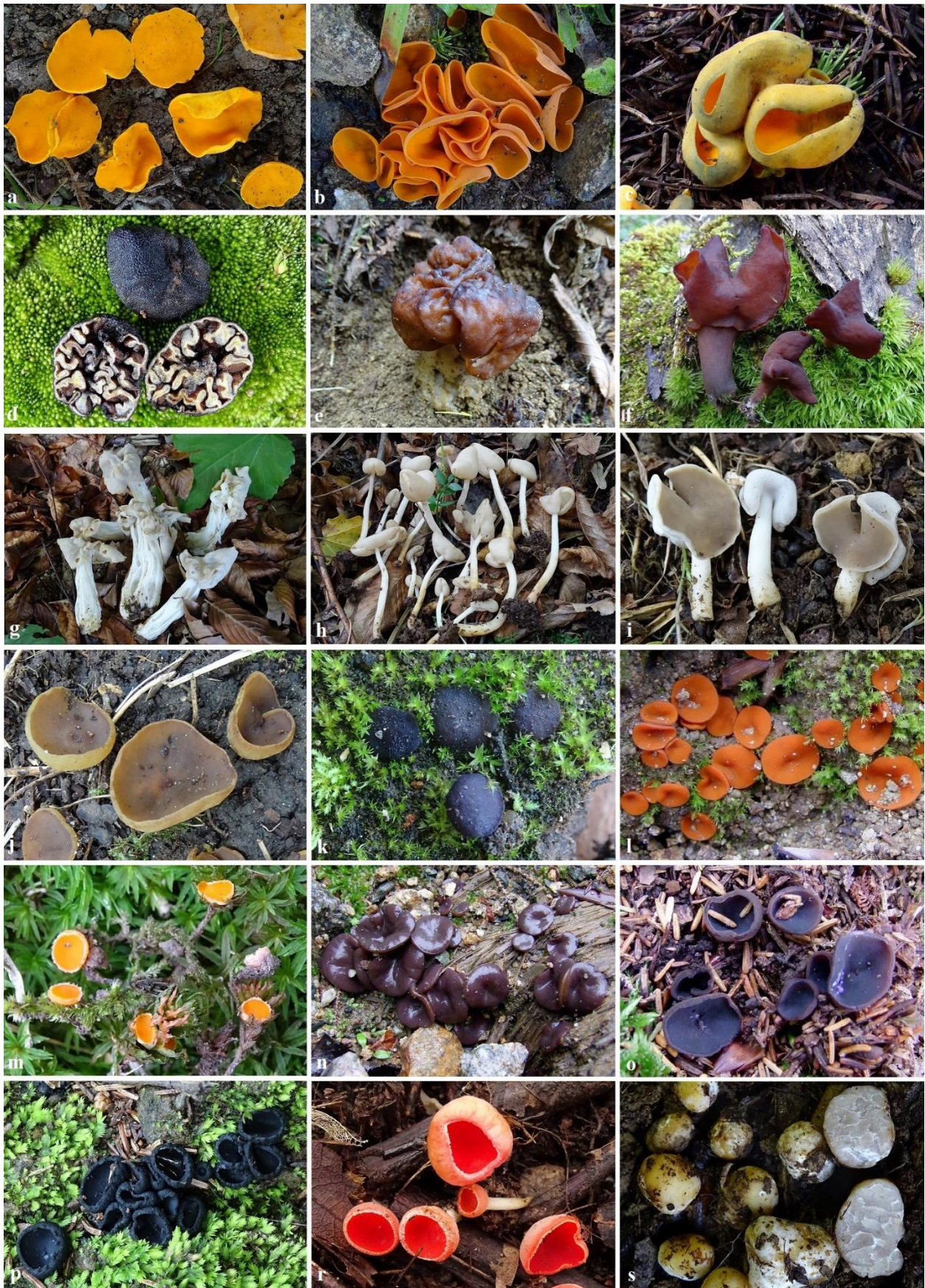


Figure 1. Colour photographs of some Pezizales members. *Acervus epispartius* (a), *Aleuria aurantia* (b), *Caloscypha fulgens* (c), *Gena lobulata* (d), *Gyromitra esculenta* (e), *Gyromitra infula* (f), *Helvella crispa* (g), *Helvella elastica* (h), *Helvella latispota* (i), *Legaliana badia* (j), *Marcelleina persoonii* (k), *Melastiza cornubiensis* (l), *Neottiella rutilans* (m), *Pachyella clypeata* (n), *Peziza saniosa* (o), *Plectania rhytidia* (p), *Sarcoscypha coccinea* (r), *Tuber puberulum* (s)

Tuber fulgens Quél.: Kırklareli (Akata et al., 2020).

Tuber macrosporum Vittad.: Edirne, Tekirdağ (Doğan, 2021).

Tuber mesentericum Vittad.: Denizli (Castellano and Türkoğlu, 2012; Türkoğlu and Castellano, 2014).

Tuber nitidum Vittad.: Burdur (Türkoğlu et al., 2015); Denizli (Castellano and Türkoğlu, 2012); Osmaniye (Türkoğlu and Castellano, 2014).

Tuber oligospermum (Tul. & C. Tul.) Trappe: Şanlıurfa (Akata et al., 2022).

Tuber puberulum Berk. & Broome: Aydın, Denizli, Muğla, Osmaniye (Elliot et al., 2016); Artvin, Trabzon (Uzun and Yakar, 2018).

Tuber rufum Picco: Antalya, Denizli, Kastamonu, Konya, Muğla (Türkoğlu and Castellano, 2014).

4. Discussions

As a result of this study, 264 *Pezizales* species have been determined to exist in Türkiye. Fifteen of the existing 16 family of the *Pezizales* were found to have members in Türkiye. Among them the most crowded one is *Pyronemataceae* with 92 species. Together with *Pyronemataceae*, 6 of the families are represented with 10 or more than 10 species (*Pezizaceae* 46, *Morchellaceae* 33, *Helvellaceae* 29, *Tuberaceae* 15, *Ascobolaceae* 10) in Türkiye. The other families *Discinaceae*, *Otidea*, *Sarcoscyphaceae*, *Sarcosomataceae*, *Ascodesmidaceae*, *Pseudombrophilaceae*, *Tarzettaceae*, *Caloscyphaceae* and *Rhizinaceae* were represented in Türkiye with 9, 7, 6, 6, 2, 2, 2, 1 and 1 species respectively (Table 1). IndexFungorum (accessed on 30 December 2022) currently doesn't include the members of the genera *Coprotus* (2) and *Psilopezia* (1) in any of the above families and keeps under *Incertae sedis*.

The taxa are distributed in 81 genera. *Morchella* Dill. ex Pers., *Helvella* L., *Peziza* Dill. ex Fr., *Octospora* Hedw. and *Tuber* P. Micheli ex F.H. Wigg. were found to be the most crowded first five genera with 30, 24, 17, 16 and 12 species respectively. *Scutellinia* (Cooke) Lambotte is

the sixth crowded one with 8 species. Two of the genera (*Cheilymenia* Boud., *Otidea* (Pers.) Bonord.) included 7 species while the other five included (*Ascobolus* Pers., *Geopora* Harkn., *Gyromitra* Fr., *Pulvinula* Boud., *Terfezia* (Tul. & C. Tul.) Tul. & C. Tul.) 6 and one included (*Genea* Vittad.) 5 species. *Lamprospora* De Not. and *Trichophaea* Boud. includes 4 species in Türkiye. Eight of them (*Aleuria* Fuckel, *Discina* (Fr.) Fr., *Geopyxis* (Pers.) Sacc., *Marcellina* Brumm., Korf & Rifai, *Paragalactinia* Van Vooren, *Plectania* Fuckel, *Thecotheus* Boud., *Tricharina* Eckblad) were represented with 3 species while 19 (*Anthracobia* Boud., *Barsisia* Gilkey, *Coprotus* Korf & Kimbr., *Geoscypha* (Cooke) Lambotte, *Humaria* Fuckel, *Lasiobolus* Sacc., *Melastiza* Boud., *Pachyella* Boud., *Pachyphloides* Zobel, *Phylloscypha* Van Vooren, *Picoa* Vittad., *Pithya* Fuckel, *Pseudombrophila* Boud., *Pseudoplectania* Fuckel, *Pyronema* Carus, *Reddellomyces* Fuckel, *Sepultariella* Van Vooren, U. Lindem. & Healy, *Tarzetta* (Cooke) Lambotte, *Verpa* Sw.) are represented with two species. The rest of the 38 genera are represented in Türkiye with only one member.

Table 1. Distribution of the Turkish *Pezizales* species in families.

Family name	# of taxa
<i>Ascobolaceae</i>	10
<i>Ascodesmidaceae</i>	2
<i>Caloscyphaceae</i>	1
<i>Discinaceae</i>	9
<i>Helvellaceae</i>	29
<i>Incertae sedis</i>	3
<i>Morchellaceae</i>	33
<i>Otidea</i>	7
<i>Pezizaceae</i>	46
<i>Pseudombrophilaceae</i>	2
<i>Pyronemataceae</i>	92
<i>Rhizinaceae</i>	1
<i>Sarcoscyphaceae</i>	6
<i>Sarcosomataceae</i>	6
<i>Tarzettaceae</i>	2
<i>Tuberaceae</i>	15

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