

## Myxomycetes in Turkey – a checklist

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**Abstract.** This checklist contains 252 species of myxomycetes recognized as occurring in Turkey. The names are arranged alphabetically. For each species, references are cited. An index of synonyms, based on literature records from Turkey, is appended.

**Key words:** fungal diversity, myxomycetes, Turkey

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### Introduction

This paper presents our current knowledge about the species diversity of myxomycetes (a group of free-living, unicellular or plasmodial phagotrophic eukaryotes) in Turkey. Turkey is the meeting ground of three phytogeographical regions—Euro-Siberian, Mediterranean, and Irano-Turanian (Davis et al. 1971). The Euro-Siberian Region extends along most of north Anatolia also occurs as a narrow strip along the Black Sea coast of European Turkey. The relatively humid climate is reflected in the predominantly mesophytic vegetation. The Mediterranean Region covers all areas bordering the Mediterranean Sea and reaches its eastern limits in the Anti-Taurus and Amanus. The landscape of this region is dominated by sclerophyllous vegetation. The Irano-Turanian Region is the largest phytogeographical region of Turkey and is confined to Central and East Anatolia. The extraordinary phytogeographical conditions of Anatolia have produced considerable species diversity. The Irano-Turanian flora in Turkey is closely related to that of Transcaucasia, NW and W Iran, and N Iraq (Davis 1965–1988). While there are 12 500 gymnosperm and angiosperm plant species in the entire continent of Europe, it is known that there is a similar

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number (about 11,000) in Anatolia alone, with some one-third of them endemic to Turkey (Ministry of Environment and Forestry 2007). This is a prerequisite for a high species richness of myxomycetes.

The first records of myxomycetes from Turkey were published by Lohwag (1957, 1964), Härkönen & Uotila (1983), Gücin & Öner (1986), and Härkönen (1987). In the middle '90s of the last century a number of Turkish researchers began to study intensively myxomycetes. Checklists of the Turkish myxomycetes have been compiled by Ergül & Dülger (2000), Sesli & Denchev (2005, 2008, 2014), and Dülger (2007).

In the main list of myxomycetes that follows, taxa are given in alphabetical order. The generic and species treatment follows the *Eumycetozoa* database (Lado 2016). Because some species have been published under different names, a list of synonyms is separately given with references to the correct names used in the main list. A short list of excluded records, providing reasons for their exclusion, is also appended.

## List of myxomycetes

### PERCOLOZOA

#### *Acrasida*

##### *Guttulinaceae*

*Pocheina rosea* (Cienk.) A.R. Loeb. & Tappan (Gücin et al. 1996a)

### MYCETOZOA

#### *Protostelea*

#### *Protostelida*

##### *Ceratiomyxaceae*

*Ceratiomyxa fruticulosa* (O.F. Müll.) T. Macbr. (Härkönen 1988; Ergül & Dülger 2000d; Ergül et al. 2005a, b; Ocak & Hasenekoğlu 2005; Yağız & Afyon 2005, 2006a; Demirel et al. 2006; Oran et al. 2006; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Baba & Zümre 2015; Oskay & Tüzün 2015)

#### *Myxogastria*

#### *Echinostellida*

##### *Clastodermataceae*

*Clastoderma debaryanum* A. Blytt (Ergül & Dülger 2000d; Ergül et al. 2005b; Ocak & Hasenekoğlu 2005; Oran et al. 2006; Baba et al. 2013b; Eroğlu & Kaşık 2013a), *C. pachypus* Nann.-Bremek. (Ergül & Dülger 2000d; Oran et al. 2006)

##### *Echinosteliaceae*

*Echinostelium apitectum* K.D. Whitney (Ergül et al. 2005b), *E. arboreum* H.W. Keller & T.E. Brooks (Ergül & Dülger 2000d; Ergül et al. 2005b), *E. coelocephalum* T.E. Brooks & H.W. Keller (Ergül & Dülger 2000d), *E. colliculosum* K.D. Whitney & H.W. Keller (Härkönen & Uotila 1983; Ergül

& Dülger 2000d), *E. corynophorum* K.D. Whitney (Ergül & Dülger 2000d), *E. cribrarioides* Alexop. (Ergül & Dülger 2000d), *E. elachiston* Alexop. (Härkönen 1988; Ergül & Dülger 2000d), *E. fragile* Nann.-Bremek. (Ergül & Dülger 2000d), *E. ladoi* Pando (Oran & Ergül 2004), *E. minutum* de Bary (Härkönen & Uotila 1983; Härkönen 1988; Ergül & Dülger 1998; Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a, 2005; Ergül et al. 2005b; Oran et al. 2006; Yağız & Afyon 2006a; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b; Baba & Zümre 2015; Ocak 2015; Oskay & Tüzün 2015)

## Liceida

### Cribrariaceae

*Cribraria argillacea* (Pers. ex J.F. Gmel.) Pers. (Ergül & Dülger 2002c; Ergül et al. 2005a; Ocak & Hasenekoğlu 2005; Demirel et al. 2006; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b, 2015), *C. aurantiaca* Schrad. (Ergül & Dülger 2000d; Ergül et al. 2005a; Oran et al. 2006; Yağız & Afyon 2006a), *C. cancellata* (Batsch) Nann.-Bremek. (Ergül & Gücin 1993; Ergül & Dülger 1998; Ergül & Dülger 2000d; Yağız et al. 2002; Ocak & Hasenekoğlu 2003a, 2005; Yağız & Afyon 2003, 2006a; Ergül et al. 2005a, b; Demirel et al. 2006; Oran et al. 2006; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Baba & Zümre 2015; Oskay & Tüzün 2015), *C. confusa* Nann.-Bremek. & Y. Yamam. (Ergül et al. 2005b), *C. elegans* Berk. & M.A. Curtis (Ergül & Dülger 2002c; Ergül et al. 2005b; Baba et al. 2013b), *C. intricata* Schrad. (Ocak & Hasenekoğlu 2005; Demirel et al. 2006; Yağız & Afyon 2006a; Baba & Tamer 2008a; Baba et al. 2013b, 2015), *C. languescens* Rex (Yağız & Afyon 2006a, c, 2007a; Baba & Tamer 2008a), *C. macrocarpa* Schrad. (Ocak & Hasenekoğlu 2005; Baba et al. 2013b), *C. microcarpa* (Schrad.) Pers. (Ergül & Dülger 2002c; Ergül et al. 2005b; Ocak & Hasenekoğlu 2005; Oran et al. 2006; Baba et al. 2013b), *C. minutissima* Schwein. (Ergül & Dülger 2000d; Baba et al. 2013b), *C. mirabilis* (Rostaf.) Masee (Yağız & Afyon 2007b; Demirel et al. 2010; Ocak 2015), *C. oregana* H.C. Gilbert (Eroğlu & Kaşık 2013b), *C. persoonii* Nann.-Bremek. (Yağız & Afyon 2003, 2005, 2006a), *C. piriformis* Schrad. (Yağız & Afyon 2007b; Baba & Tamer 2008a; Demirel et al. 2010; Baba et al. 2013b), *C. tenella* Schrad. (Ergül & Dülger 2002c; Ergül et al. 2005a), *C. violacea* Rex (Härkönen & Uotila 1983; Ergül & Dülger 1998; Ergül & Dülger 2000d; Ergül et al. 2005b; Oran et al. 2006; Yağız & Afyon 2006a; Baba et al. 2013b; Eroğlu & Kaşık 2013a), *C. vulgaris* Schrad. (Oran & Ergül 2004; Demirel et al. 2006; Yağız & Afyon 2006a; Baba & Tamer 2008a; Baba 2012; Baba et al. 2013b, 2015; Oskay & Tüzün 2015)

*Lindbladia tubulina* Fr. (Ergül & Dülger 2002c; Ergül et al. 2005b)

### Dictydiaethaliaceae

*Dictydiaethalium plumbeum* (Schumach.) Rostaf ex Lister (Baba et al. 2008, 2013b; Baba 2012)

*Liceaceae*

*Licea belmontiana* Nann.-Bremek. (Oran & Ergül 2004; Ergül et al. 2005b; Yağız & Afyon 2006a), *L. biforis* Morgan (Ocak & Hasenekoğlu 2005; Yağız & Afyon 2006a; Baba 2012; Baba et al. 2013b; Baba & Zümre 2015), *L. castanea* G. Lister (Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a; Ergül et al. 2005b; Oran et al. 2006; Yağız & Afyon 2006a; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b; Baba & Zümre 2015; Ocak 2015; Oskay & Tüzün 2015), *L. denudescens* H.W. Keller & T.E. Brooks (Härkönen & Uotila 1983; Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a), *L. inconspicua* T.E. Brooks & H.W. Keller (Oran & Ergül 2004; Ergül et al. 2005b), *L. kleistobolus* G.W. Martin (Härkönen & Uotila 1983; Härkönen 1988; Ergül & Dülger 2000d; Ergül et al. 2005b; Ocak & Hasenekoğlu 2005; Oran et al. 2006; Baba & Tamer 2008a; Baba et al. 2013b; Oskay & Tüzün 2015), *L. marginata* Nann.-Bremek. (Yağız & Afyon 2007b; Demirel et al. 2010), *L. minima* Fr. (Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2005; Demirel et al. 2006; Oran et al. 2006; Yağız & Afyon 2006a; Baba & Tamer 2008a; Baba et al. 2013b; Ocak 2015; Oskay & Tüzün 2015), *L. operculata* (Wingate) G.W. Martin (Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2005; Oran et al. 2006; Yağız & Afyon 2006a), *L. parasitica* (Zukal) G.W. Martin (Ergül & Dülger 2000d; Ergül et al. 2005b; Ocak & Hasenekoğlu 2005; Oran et al. 2006; Eroğlu & Kaşık 2013a), *L. pedicellata* (H.C. Gilbert) H.C. Gilbert (Ergül & Dülger 2000d; Oran et al. 2006; Baba & Tamer 2008a; Baba et al. 2013b), *L. perexigua* T.E. Brooks & H.W. Keller (Oran & Ergül 2004), *L. punctiformis* G.W. Martin (Ergül & Dülger 2000d; Ergül et al. 2005b; Oran et al. 2006), *L. pusilla* Schrad. (Ergül & Dülger 2000d; Ergül et al. 2005b; Ocak & Hasenekoğlu 2005; Oran et al. 2006; Demirel et al. 2006; Baba 2012; Eroğlu & Kaşık 2013a), *L. pygmaea* (Meyl.) Ing (Ergül & Dülger 1998, 2000d), *L. scyphoides* T.E. Brooks & H.W. Keller (Ergül et al. 2005b), *L. synsporos* Nann.-Bremek. (Ocak & Hasenekoğlu 2003b), *L. tenera* E. Jahn (Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a; Ergül et al. 2005b; Baba et al. 2013b), *L. testudinacea* Nann.-Bremek. (Eroğlu et al. 2015), *L. tuberculata* G.W. Martin (Ocak & Hasenekoğlu 2003a), *L. variabilis* Schrad. (Ocak & Hasenekoğlu 2003b; Baba & Tamer 2008a; Baba 2012)

*Tubiferaceae*

*Lycogala epidendrum* (L.) Fr. (Lohwag 1957, 1964; Selik 1964; Härkönen 1988; Gücin et al. 1996b; Ergül & Dülger 1998, 2000d; Kaya & Demirel 1998; Pekşen & Karaca 2000, 2003; Türkekel 2003; Demirel, K. et al. 2004; Ergül et al. 2005a, b; Ocak & Hasenekoğlu 2005; Demirel, G. et al. 2006; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b, 2015; Baba & Zümre 2015; Ocak 2015; Oskay & Tüzün 2015), *L. exiguum* Morgan (Oran & Ergül 2004; Ocak & Hasenekoğlu 2005; Ergül & Akgül 2011; Eroğlu & Kaşık 2013a), *L. flavofuscum* (Ehrenb.) Rostaf. (Ergül & Dülger 2000d; Ergül et al. 2005a, b)

- Reticularia jurana* Meyl. (Ergül et al. 2005b; Eroğlu & Kaşık 2013a), *R. liceoides* (Lister) Nann.-Bremek. (Ergül & Oran 2005), *R. lycoperdon* Bull. (Demirel & Uzun 2002; Kaya & Demirel 1998; Demirel & Uzun 2002; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Ocak 2015), *R. splendens* Morgan (Ergül 1995; Gücin et al. 1996b; Ergül & Dülger 2000d; Gücin & Dülger 2007; Ergül & Akgül 2011)
- Tubifera ferruginosa* (Batsch) J.F. Gmel. (Ergül & Dülger 2002c; Ergül et al. 2005b; Ocak & Hasenekoğlu 2005; Yağız & Afyon 2006a; Ergül & Akgül 2011)

## *Physarida*

### *Didymiaceae*

- Diderma carneum* Nann.-Bremek. (Baba & Tamer 2008b; Baba et al. 2013b, 2015), *D. chondrioderma* (de Bary & Rostaf.) G. Lister (Ergül 1992; Ergül & Dülger 1998, 2000d; Ergül et al. 2005b), *D. cinereum* Morgan (Oran & Ergül 2015), *D. crustaceum* Peck (Dülger 2008b), *D. deplanatum* Fr. (Baba 2012), *D. hemisphaericum* (Bull.) Hornem. (Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2005; Baba et al. 2013b, 2015; Ocak 2015), *D. niveum* (Rostaf.) E. Sheld. (Ergül et al. 2005b), *D. radiatum* (L.) Morgan (Baba et al. 2013b), *D. testaceum* (Schrad.) Pers. (Ergül & Dülger 2002c; Ergül et al. 2005b; Ocak 2015), *D. umbilicatum* Pers. (Oran & Ergül 2015)
- Didymium anellus* Morgan (Ocak & Hasenekoğlu 2005; Baba et al. 2013b), *D. annulisporum* H.W. Keller & Schokn. (Eroğlu & Kaşık 2013a), *D. bahiense* Gottsb. (Ergül & Dülger 2002c; Ergül et al. 2005b; Baba & Tamer 2008a; Baba et al. 2013b, 2015), *D. crustaceum* Fr. (Ocak & Hasenekoğlu 2003a), *D. difforme* (Pers.) Gray (Ergül & Dülger 2000d; Yağız & Afyon 2006a; Baba & Tamer 2008a; Baba 2012; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Baba & Zümre 2015; Oskay & Tüzün 2015), *D. dubium* Rostaf. (Baba et al. 2013b), *D. eximium* Peck (Ergül & Dülger 2002c; Ergül et al. 2005b), *D. floccosum* G.W. Martin, K.S. Thind & Rehill (Ergül & Dülger 1998, 2000d; Dülger et al. 2006), *D. iridis* (Ditmar) Fr. (Ocak & Hasenekoğlu 2003b; Baba & Tamer 2008a), *D. karstensii* Nann.-Bremek. (Demirel & Kaşık 2012; Eroğlu & Kaşık 2013a), *D. lenticulare* K.S. Thind & T.N. Lakh. (Oran & Ergül 2015), *D. megalosporum* Berk & M.A. Curtis (Baba 2012; Baba et al. 2013b, 2015), *D. melanospermum* (Pers.) T. Macbr. (Baba et al. 2008, 2013b, 2015; Baba 2012), *D. minus* (Lister) Morgan (Ergül & Dülger 2000d), *D. nigripes* (Link) Fr. (Ergül & Dülger 2002c; Ergül et al. 2005b; Ocak & Hasenekoğlu 2005), *D. quitense* (Pat.) Torrend (Härkönen & Uotila 1983; Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a, 2005), *D. squamulosum* (Alb. & Schwein.) Fr. (Härkönen & Uotila 1983; Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a, 2005; Baba & Tamer 2008a; Baba 2012; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Baba & Zümre 2015; Oskay & Tüzün 2015), *D. sturgisii* Hagelst. (Ergül et al. 2005b), *D. trachysporum*

G. Lister (Demirel & Kaşık 2012; Baba et al. 2013b, 2014; Eroğlu & Kaşık 2013a), *D. vaccinum* (Durieu & Mont.) Buchet (Eroğlu et al. 2015)

*Mucilago crustacea* F.H. Wigg. (Ergül & Dülger 2000d, 2002a)

*Physaraceae*

*Badhamia affinis* Rostaf. (Härkönen & Uotila 1983; Ergül et al. 2005b; Yağız & Afyon 2005), *B. capsulifera* (Bull.) Berk. (Ergül & Dülger 2002c; Yağız & Afyon 2005, 2006a), *B. dubia* Nann.-Bremek. (Dülger 2008c; Baba et al. 2013b, 2015), *B. foliicola* Lister (Härkönen & Uotila 1983; Ergül & Dülger 1998, 2000d; Ocak & Hasenekoğlu 2003a, 2005; Ergül et al. 2005b; Yağız & Afyon 2005; Oran et al. 2006; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b; Eroğlu & Kaşık 2013a), *B. goniospora* Meyl. (Ergül et al. 2005b; Yağız & Afyon 2006a), *B. iowensis* T. Macbr. (Eroğlu & Kaşık 2013b), *B. macrocarpa* (Ces.) Rostaf. (Gücin & Öner 1986; Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a; Ergül et al. 2005b; Demirel et al. 2006; Oran et al. 2006; Yağız & Afyon 2006a; Baba & Tamer 2008a; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a), *B. melanospora* Speg. (Dülger 2008b; Eroğlu & Kaşık 2013a), *B. nitens* Berk. (Ergül & Dülger 2000d; Ergül et al. 2005b; Oran et al. 2006; Zümre et al. 2013), *B. panicea* (Fr.) Rostaf. (Härkönen & Uotila 1983; Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a, 2005; Demirel et al. 2006; Yağız & Afyon 2006a; Baba et al. 2013b; Eroğlu & Kaşık 2013a), *B. papaveracea* Berk. & Ravenel (Ergül et al. 2005b), *B. populina* Lister & G. Lister (Ergül et al. 2005b; Baba & Tamer 2008a), *B. utricularis* (Bull.) Berk. (Oran & Ergül 2004; Dülger & Gönüz 2005; Yağız & Afyon 2006a; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b), *B. versicolor* Lister (Härkönen & Uotila 1983; Ergül & Dülger 2000d; Ergül et al. 2005b; Oran et al. 2006), *B. viridescens* Meyl. (Ergül 1992; Ergül & Dülger 2000d)

*Badhamiopsis ainoae* (Yamash.) T.E. Brooks & H.W. Keller (Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a; Ergül et al. 2005b; Eroğlu & Kaşık 2013a)

*Craterium concinnum* Rex (Ocak & Hasenekoğlu 2005; Eroğlu & Kaşık 2013a), *C. leucocephalum* (Pers. ex J.F. Gmel.) Ditmar (Ergül & Oran 2005; Eroğlu & Kaşık 2013a), *C. minutum* (Leers) Fr. (Ergül & Dülger 2002c; Ergül et al. 2005a)

*Fuligo cinerea* (Schwein.) Morgan (Ocak 2015), *F. septica* (L.) F.H. Wigg. (Ergül & Gücin 1994; Ergül & Dülger 2000d, 2002c; Ergül et al. 2005a, b; Ocak & Hasenekoğlu 2005; Oran et al. 2006; Yağız & Afyon 2007b; Baba & Tamer 2008a; Ergül & Akgül 2011; Eroğlu & Kaşık 2013a; Ocak 2015)

*Leocarpus fragilis* (Dicks.) Rostaf. (Ergül & Dülger 1998, 2000d; Ocak & Hasenekoğlu 2005; Yağız & Afyon 2005; Ergül & Akgül 2011; Ocak 2015)

*Physarum albescens* Ellis ex T. Macbr. (Baba & Gelen 2014), *Ph. album* (Bull.) Chevall. (Ergül & Dülger 1998, 2000d; Yağız et al. 2002; Ergül et al. 2005a, b; Ocak & Hasenekoğlu 2005; Demirel et al. 2006; Dülger et al. 2006; Oran

et al. 2006; Yağız & Afyon 2006a; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b, 2015; Baba 2015; Baba & Zümre 2015; Ocak 2015; Oskay & Tüzün 2015), *Ph. auriscalpium* Cooke (Härkönen 1988; Ergül et al. 2005b; Oran et al. 2006; Baba & Tamer 2008a; Baba et al. 2013b; Eroğlu & Kaşık 2013a; Baba 2015), *Ph. bitectum* G. Lister (Härkönen & Uotila 1983; Ergül & Dülger 2000d; Baba 2015), *Ph. cinereum* (Batsch) Pers. (Härkönen 1988; Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a, 2005; Baba & Tamer 2008a; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Baba 2015; Baba & Zümre 2015; Oskay & Tüzün 2015), *Ph. compressum* Alb. & Schwein. (Ergül & Dülger 2000d; Baba & Tamer 2008a; Baba 2015; Baba et al. 2013b, 2015), *Ph. confertum* T. Macbr. (Baba 2008, 2015; Baba et al. 2013b; Eroğlu & Kaşık 2013a; Baba & Zümre 2015), *Ph. contextum* (Pers.) Pers. (Härkönen & Uotila 1983; Ergül & Dülger 2000d; Baba et al. 2013b, 2015; Baba 2015), *Ph. decipiens* M.A. Curtis (Härkönen & Uotila 1983; Ergül & Dülger 2000d; Yağız et al. 2002; Ocak & Hasenekoğlu 2003a; Ergül et al. 2005b; Yağız & Afyon 2005; Dülger et al. 2006; Baba 2015), *Ph. didermoides* (Pers.) Rostaf. (Demirel & Kaşık 2012; Eroğlu & Kaşık 2013a; Baba 2015), *Ph. famintzinii* Rostaf. (Eroğlu et al. 2014, 2015; Baba 2015), *Ph. flavicomum* Berk. (Ergül & Dülger 2002c; Ergül et al. 2005a; Oran et al. 2006; Ergül & Akgül 2011; Baba et al. 2013b; Baba 2015), *Ph. galbeum* Wingate (Dülger 2008a; Baba 2015), *Ph. globuliferum* (Bull.) Pers. (Ergül et al. 2005b; Baba 2015), *Ph. gyrosum* Rostaf. (Demirel & Kaşık 2012; Eroğlu & Kaşık 2013a; Baba 2015), *Ph. javanicum* Racib. (Baba 2015), *Ph. leucophaeum* Fr. (Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a; Yağız & Afyon 2006a; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b; Eroğlu & Kaşık 2013a; Baba 2015), *Ph. leucopus* Link (Ocak & Hasenekoğlu 2003a; Baba 2015), *Ph. licheniforme* (Szabó ex Schwein.) Lado (Baba et al. 2012; Baba 2015), *Ph. luteolum* Peck (Oran & Ergül 2004; Baba 2015), *Ph. notabile* T. Macbr. (Ergül & Dülger 2002c; Ocak & Hasenekoğlu 2003a; Ergül et al. 2005b; Baba & Tamer 2008a; Baba et al. 2013b; Eroğlu & Kaşık 2013a; Baba 2015; Ocak 2015), *Ph. nudum* T. Macbr. (Eroğlu & Kaşık 2013b; Ocak 2015), *Ph. oblatum* T. Macbr. (Ergül & Dülger 2000d; Baba & Tamer 2008a; Baba et al. 2013b; Eroğlu & Kaşık 2013a; Baba 2015), *Ph. ovisporum* G. Lister (Ergül & Dülger 2002c; Baba et al. 2013b; Baba 2015), *Ph. perfectum* M. Peck (Dülger & Duman 2010; Baba 2015), *Ph. pulcherrimum* Berk. & Ravenel (Ergül & Oran 2005; Baba 2015), *Ph. pusillum* (Berk. & M.A. Curtis) G. Lister (Ergül & Dülger 1998, 2000d; Yağız et al. 2002; Ocak & Hasenekoğlu 2003a; Dülger et al. 2006; Oran et al. 2006; Baba 2015), *Ph. robustum* (Lister) Nann.-Bremek. (Yağız & Afyon 2007b; Demirel et al. 2010; Baba 2015), *Ph. serpula* Morgan (Oran & Ergül 2015), *Ph. tropicale* T. Macbr. (Baba & Gelen 2014), *Ph. verum* Sommerf. (Oran & Ergül 2004; Baba 2015), *Ph. viride* (Bull.) Pers. (Ergül & Dülger 1998, 2000d; Ergül et al. 2005a; Ocak & Hasenekoğlu 2005; Oran et

al. 2006; Yağız & Afyon 2006a; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Baba 2015)

*Protophysarum phloiogenum* M. Blackw. & Alexop. (Oran & Ergül 2004)

*Willkommlangea reticulata* (Alb. & Schwein.) Kuntze (Baba & Tamer 2008b)

## Stemonitida

### Stemonitidaceae

*Amaurochaete atra* (Alb. & Schwein.) Rostaf. (Sümer 1982; Abatay 1989; Ergül & Dülger 2000d; Yağız & Afyon 2007b; Baba & Tamer 2008a), *A. comata* G. Lister & Brândză (Eroğlu & Kaşık 2013b), *A. tubulina* (Alb. & Schwein.) T. Macbr. (Oran & Ergül 2015)

*Collaria arcyronema* (Rostaf.) Nann.-Bremek. ex Lado (Oran & Ergül 2004; Ergül et al. 2005b), *C. lurida* (Lister) Nann.-Bremek. (Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a, 2005; Demirel et al. 2006; Baba & Tamer 2008a; Baba 2012; Baba et al. 2013b, 2015; Oskay & Tüzün 2015), *C. rubens* (Lister) Nann.-Bremek. (Härkönen 1988; Ocak 2015)

*Comatricha alta* Preuss (Eroğlu & Kaşık 2013b), *C. elegans* (Racib.) G. Lister (Härkönen & Uotila 1983; Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2005; Baba & Tamer 2008a; Baba 2012; Baba et al. 2013b; Eroğlu & Kaşık 2013a), *C. ellae* Härk. (Ergül & Dülger 2000d; Yağız & Afyon 2005; Oran et al. 2006; Baba & Tamer 2008a; Baba 2012; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Baba & Zümre 2015; Ocak 2015; Oskay & Tüzün 2015), *C. laxa* Rostaf. (Härkönen & Uotila 1983; Ergül & Dülger 1998, 2000d; Ergül et al. 2005b; Demirel et al. 2006; Dülger et al. 2006; Oran et al. 2006; Baba & Tamer 2008a; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Baba & Zümre 2015), *C. longipila* Nann.-Bremek. (Oran & Ergül 2015), *C. nigra* (Pers. ex J.F. Gmel.) J. Schröt. (Härkönen & Uotila 1983; Ergül & Dülger 1998, 2000d; Yağız et al. 2002; Ocak & Hasenekoğlu 2003a, 2005; Ergül et al. 2005b; Demirel et al. 2006; Dülger et al. 2006; Oran et al. 2006; Yağız & Afyon 2006a; Baba & Tamer 2008a; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Eroğlu et al. 2014; Baba & Zümre 2015; Ocak 2015; Oskay & Tüzün 2015), *C. pulchella* (C. Bab.) Rostaf. (Ergül & Dülger 2002b; Yağız et al. 2002; Ocak & Hasenekoğlu 2005; Demirel et al. 2006; Yağız & Afyon 2006a; Baba & Tamer 2008a; Baba et al. 2013b; Eroğlu & Kaşık 2013a; Eroğlu et al. 2014; Baba & Zümre 2015), *C. pulchelloides* Nann.-Bremek. (Eroğlu & Kaşık 2013a), *C. rigidireta* Nann.-Bremek. (Eroğlu & Kaşık 2013a), *C. suksdorfii* Ellis & Everh. (Dülger et al. 2007), *C. tenerima* (M.A. Curtis) G. Lister (Ocak & Hasenekoğlu 2005; Oran et al. 2006; Baba 2012; Baba et al. 2013b)

*Diachea leucopodia* (Bull.) Rostaf. (Härkönen & Uotila 1983; Ergül & Dülger 2000d; Oran et al. 2006; Baba et al. 2015)

*Diacheopsis minuta* Nann.-Bremek. & Y. Yamam. (Ocak 2015)

*Enerthenema papillatum* (Pers.) Rostaf. (Härkönen & Uotila 1983; Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a, 2005; Yağız & Afyon 2005,



2006a; Demirel et al. 2006; Oran et al. 2006; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Eroğlu et al. 2014; Baba & Zümre 2015; Oskay & Tüzün 2015)

*Lamproderma arcyrioides* (Sommerf.) Rostaf. (Härkönen 1988; Ergül & Dülger 2000d; Ergül & Akgül 2011; Baba et al. 2013b), *L. columbinum* (Pers.) Rostaf. (Oran & Ergül 2004), *L. laxum* H. Neubert (Baba et al. 2013b), *L. scintillans* (Berk. & Broome) Morgan (Ocak & Hasenekoğlu 2005; Baba et al. 2013b, 2015)

*Macbrideola cornea* (G. Lister & Cran) Alexop. (Härkönen & Uotila 1983; Härkönen 1988; Ergül & Dülger 2000d; Ergül et al. 2005b; Ocak & Hasenekoğlu 2005; Yağız & Afyon 2005, 2006a; Oran et al. 2006; Baba & Tamer 2008a; Baba et al. 2013b; Oskay & Tüzün 2015), *M. decapillata* H.C. Gilbert (Ergül & Dülger 2000d; Yağız et al. 2002; Ergül et al. 2005b; Dülger et al. 2006; Yağız & Afyon 2006a; Baba & Tamer 2008a; Baba et al. 2013b; Baba & Zümre 2015), *M. dubia* Nann.-Bremek. & Y. Yamam. (Ergül et al. 2005b; Ocak 2015), *M. macrospora* (Nann.-Bremek.) Ing (Yağız & Afyon 2006a, c, 2007a; Baba et al. 2013b), *M. martinii* (Alexop. & Beneke) Alexop. (Oran & Ergül 2004; Baba & Tamer 2008a), *M. scintillans* H.C. Gilbert (Ergül & Dülger 2002c; Ergül et al. 2005b), *M. synsporos* (Alexop.) Alexop. (Ergül & Dülger 2000d; Ergül et al. 2005b; Baba & Tamer 2008a; Ergül & Akgül 2011; Ocak 2015)

*Meriderma cribrarioides* (Fr.) Mar. Mey. & Poulain (Baba 2012)

*Paradiacheopsis acanthodes* (Alexop.) Nann.-Bremek. (Ergül & Dülger 2000a; Ocak & Hasenekoğlu 2005; Oran et al. 2006), *P. cribrata* Nann.-Bremek. (Oran & Ergül 2004), *P. fimbriata* (G. Lister & Cran) Hertel ex Nann.-Bremek. (Härkönen & Uotila 1983; Härkönen 1988; Ergül & Dülger 2000d; Oran et al. 2006; Baba & Tamer 2008a), *P. microcarpa* (Meyl.) D.W. Mitch. ex Ing (Oran & Ergül 2004), *P. rigida* (Brändzä) Nann.-Bremek. (Ergül & Dülger 2000a; Oran & Ergül 2004; Ergül & Akgül 2011; Baba et al. 2013b), *P. solitaria* (Nann.-Bremek.) Nann.-Bremek. (Ergül & Dülger 2000a; Oran et al. 2006; Ergül & Akgül 2011)

*Stemonaria irregularis* (Rex) Nann.-Bremek., R. Sharma & Y. Yamam. (Ergül & Dülger 2002c; Yağız & Afyon 2007b)

*Stemonitis axifera* (Bull.) T. Macbr. (Ergül & Dülger 2002c; Ergül et al. 2005a, b; Ocak & Hasenekoğlu 2005; Oran et al. 2006; Baba & Tamer 2008a; Baba et al. 2013b, 2015; Ocak 2015), *S. flavogenita* E. Jahn (Härkönen & Uotila 1983; Ergül & Dülger 2000d; Ergül et al. 2005a, b; Yağız & Afyon 2005; Oran et al. 2006; Baba & Tamer 2008a; Baba et al. 2013b, 2015; Ocak 2015), *S. foliicola* Ing (Baba 2008, 2012; Baba et al. 2013b; Eroğlu & Kaşık 2013a), *S. fusca* Roth (Härkönen & Uotila 1983; Ergül & Dülger 1998, 2000d; Ergül et al. 2005a; Ocak & Hasenekoğlu 2005; Yağız & Afyon 2005; Dülger et al. 2006; Oran et al. 2006; Baba & Tamer 2008a; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Eroğlu et al. 2014; Baba & Zümre 2015; Ocak 2015;

Oskay & Tüzün 2015), *S. herbatica* Peck (Ergül & Dülger 2002c; Yağız et al. 2002; Ergül et al. 2005a, b; Ocak & Hasenekoğlu 2005; Oran et al. 2006; Baba & Tamer 2008a; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a), *S. inconspicua* Nann.-Bremek. (Oran & Ergül 2015), *S. mediterraneensis* H.H. Doğan & Eroğlu (Doğan & Eroğlu 2014), *S. pallida* Wingate (Ergül & Dülger 2002c; Ergül et al. 2005a, b; Yağız & Afyon 2006a; Baba & Tamer 2008a; Eroğlu & Kaşık 2013a), *S. smithii* T. Macbr. (Ergül & Dülger 2002c; Ergül et al. 2005a, b; Ocak & Hasenekoğlu 2005; Demirel et al. 2006; Oran et al. 2006; Baba & Tamer 2008a), *S. splendens* Rostaf. (Gücin & Öner 1986; Ergül & Dülger 2000d; Ergül et al. 2005a, b; Yağız & Afyon 2005; Baba et al. 2013b), *S. virginiensis* Rex (Ergül & Dülger 2002c; Ergül et al. 2005a, b; Yağız & Afyon 2006a; Ocak 2015)

*Stemonitopsis amoena* (Nann.-Bremek.) Nann.-Bremek. (Yağız & Afyon 2005, 2006b; Baba & Tamer 2008a; Baba 2012; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Baba & Zümre 2015; Oskay & Tüzün 2015), *S. gracilis* (G. Lister) Nann.-Bremek. (Yağız & Afyon 2005, 2006b; Eroğlu & Kaşık 2013a), *S. hyperopta* (Meyl.) Nann.-Bremek. (Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a, 2005; Yağız & Afyon 2006a; Baba & Tamer 2008a; Baba et al. 2013b, 2015), *S. microspora* (Lister) Nann.-Bremek. (Ergül & Dülger 2000c; Yağız & Afyon 2006a), *S. reticulata* (H.C. Gilbert) Nann.-Bremek. & Y. Yamam. (Baba & Tamer 2008a; Baba et al. 2013b, 2015), *S. subcaespitosa* (Peck) Nann.-Bremek. (Ergül & Dülger 2002c; Oran et al. 2006; Baba et al. 2013b, 2015), *S. typhina* (F.H. Wigg.) Nann.-Bremek. (Härkönen 1988; Ergül & Dülger 2000c, d; Ergül et al. 2005a, b; Oran et al. 2006; Ergül & Akgül 2011; Baba et al. 2013b)

*Symphytocarpus confluens* (Cooke & Ellis) Ing & Nann.-Bremek. (Eroğlu & Kaşık 2013b; Oran & Ergül 2015), *S. flaccidus* (Lister) Ing & Nann.-Bremek. (Ergül & Dülger 1999, 2000d), *S. impexus* Ing & Nann.-Bremek. (Baba et al. 2008), *S. trechispora* (Berk. ex Torrend) Nann.-Bremek. (Baba et al. 2013b)

## Trichiida

### Arcyriaceae

*Arcyria affinis* Rostaf. (Ergül & Dülger 2002c; Ergül et al. 2005a; Yağız & Afyon 2006a; Baba et al. 2013b, 2015), *A. annulifera* G. Lister & Torrend (Oran & Ergül 2004; Ocak 2015; Oskay & Tüzün 2015), *A. cinerea* (Bull.) Pers. (Härkönen & Uotila 1983; Härkönen 1988; Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a, 2005; Ergül et al. 2005a, b; Demirel et al. 2006; Dülger et al. 2006; Oran et al. 2006; Yağız & Afyon 2006a; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Eroğlu et al. 2014; Baba & Zümre 2015; Ocak 2015; Oskay & Tüzün 2015), *A. denudata* (L.) Wettst. (Härkönen 1988; Ergül & Dülger 2000d; Ergül et al. 2005a, b; Ocak & Hasenekoğlu 2005; Oran et al. 2006; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Baba & Zümre

2015), *A. ferruginea* Saut. (Ergül & Dülger 2002c; Oran et al. 2006; Baba et al. 2013b; Ocak 2015; Oskay & Tüzün 2015), *A. globosa* Schwein. (Ocak & Hasenekoğlu 2005; Yağız & Afyon 2005, 2006a; Demirel et al. 2006; Baba & Tamer 2008a; Eroğlu & Kaşık 2013a; Oskay & Tüzün 2015), *A. imperialis* (G. Lister) Q. Wang & Yu Li (Oran & Ergül 2004; Yağız & Afyon 2007b), *A. incarnata* (Pers. ex J.F. Gmel.) Pers. (Ergül & Dülger 2000d; Yağız et al. 2002; Ergül et al. 2005a, b; Ocak & Hasenekoğlu 2005; Yağız & Afyon 2005, 2006a, c; Demirel et al. 2006; Dülger et al. 2006; Oran et al. 2006; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Eroğlu et al. 2014; Baba & Zümre 2015), *A. insignis* Kalchbr. & Cooke (Ergül & Dülger 2000d; Ergül et al. 2005a, b; Ocak & Hasenekoğlu 2005; Baba & Tamer 2008a; Ergül & Akgül 2011; Oskay & Tüzün 2015), *A. magna* Rex (Ocak & Hasenekoğlu 2005; Demirel et al. 2006), *A. major* (G. Lister) Ing (Yağız & Afyon 2005), *A. minuta* Buchet (Ergül & Dülger 2000b, d, 2002c; Oran et al. 2006; Baba 2012; Baba et al. 2013b, 2015; Ocak 2015), *A. nigella* Emoto (Ocak & Hasenekoğlu 2005; Oskay & Tüzün 2015), *A. obvelata* (Oeder) Onsberg (Ergül & Dülger 1998, 2000d; Ocak & Hasenekoğlu 2003a, 2005; Ergül et al. 2005a, b; Yağız & Afyon 2005, 2006a, 2007b; Demirel et al. 2006; Dülger et al. 2006; Oran et al. 2006; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Baba & Zümre 2015; Ocak 2015; Oskay & Tüzün 2015), *A. occidentalis* (T. Macbr.) G. Lister (Dülger et al. 2005), *A. oerstedii* Rostaf. (Dülger et al. 2006; Yağız & Afyon 2006a, c), *A. pomiformis* (Leers) Rostaf. (Härkönen & Uotila 1983; Härkönen 1988; Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a, 2005; Ergül et al. 2005a; Demirel et al. 2006; Yağız & Afyon 2006a; Baba & Tamer 2008a; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Baba & Zümre 2015; Ocak 2015; Oskay & Tüzün 2015), *A. stipata* (Schwein.) Lister (Ergül & Dülger 2002c; Ergül et al. 2005a; Demirel et al. 2006; Baba et al. 2013b), *A. versicolor* W. Phillips (Härkönen 1988; Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a, 2005; Oran et al. 2006; Ergül & Akgül 2011; Baba et al. 2013b, 2015)

#### *Dianemataceae*

*Calomyxa metallica* (Berk.) Nieuwl. (Ergül & Dülger 2000d; Oran et al. 2006)

*Dianema corticatum* Lister (Ocak & Hasenekoğlu 2005), *D. harveyi* Rex (Ergül et al. 2005b), *D. repens* G. Lister & Cran (Ergül & Dülger 2002c; Ergül & Akgül 2011)

#### *Trichiaceae*

*Arcyodes incarnata* (Alb. & Scwein.) O.F. Cook (Yağız & Afyon 2006a, c, 2007a; Eroğlu & Kaşık 2013a; Yildiz & Dülger 2015)

*Hemitrichia abietina* (Wigand) G. Lister (Baba & Tamer 2008b; Baba et al. 2013b), *H. calyculata* (Speg.) M.L. Farr (Ergül & Dülger 2000d, 2002a; Ergül et al. 2005a, b; Oran et al. 2006; Yağız & Afyon 2007b), *H. clavata* (Pers.) Rostaf. (Härkönen 1988; Ergül & Dülger 2000d; Yağız & Afyon 2007b; Baba et al. 2013b), *H. leiocarpa* (Cooke) Lister (Oran & Ergül 2004;

- Yağız & Afyon 2007b), *H. minor* G. Lister (Oran & Ergül 2004; Ergül et al. 2005b; Yağız & Afyon 2007b)
- Metatrichia floriformis* (Schwein.) Nann.-Bremek. (Oran & Ergül 2004), *M. vesparia* (Batsch) Nann.-Bremek. ex G.W. Martin & Alexop. (Ergül & Gücin 1993; Ergül & Dülger 2000d; Ergül et al. 2005a; Yağız & Afyon 2005, 2007b; Oran et al. 2006)
- Oligonema flavidum* (Peck) Peck (Ocak 2015), *O. schweinitzii* (Berk.) G.W. Martin (Ocak & Hasenekoğlu 2003b; Baba et al. 2013b; Eroğlu & Kaşık 2013a)
- Perichaena chryosperma* (Curr.) Lister (Ergül & Dülger 1998, 2000d; Ergül et al. 2005b; Ocak & Hasenekoğlu 2005; Yağız & Afyon 2005, 2006a; Oran et al. 2006; Baba & Tamer 2008a; Eroğlu & Kaşık 2013a), *P. corticalis* (Batsch) Rostaf. (Härkönen & Uotila 1983; Härkönen 1988; Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a, 2005; Ergül et al. 2005b; Oran et al. 2006; Baba & Tamer 2008a; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Ocak 2015; Oskay & Tüzün 2015), *P. depressa* Lib. (Yağız & Afyon 2007b; Demirel et al. 2010; Baba 2012; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a; Baba & Zümre 2015), *P. tessellata* G. Lister (Oran & Ergül 2004; Ergül et al. 2005b), *P. vermicularis* (Schwein.) Rostaf. (Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a; Ergül et al. 2005b; Oran et al. 2006; Baba & Tamer 2008a; Baba et al. 2013b, 2015)
- Prototrichia metallica* (Berk.) Masee (Baba 2008)
- Trichia affinis* de Bary (Ergül & Dülger 2002c; Ergül et al. 2005a; Oran et al. 2006), *T. alpina* (R.E. Fr.) Meyl. (Härkönen 1988; Ergül & Dülger 2000d), *T. botrytis* (J.F. Gmel.) Pers. (Ergül & Dülger 2000d; Ocak & Hasenekoğlu 2003a, 2005; Ergül et al. 2005a; Oran et al. 2006; Yağız & Afyon 2006a; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b, 2015), *T. contorta* (Ditmar) Rostaf. (Härkönen & Uotila 1983; Ergül & Gücin 1995; Ergül & Dülger 2000d; Ergül et al. 2005b; Demirel et al. 2006; Oran et al. 2006; Baba & Tamer 2008a; Eroğlu & Kaşık 2013a), *T. crateriformis* G.W. Martin (Baba & Tamer 2008a; Ergül & Akgül 2011), *T. decipiens* (Pers.) T. Macbr. (Härkönen 1988; Ergül & Dülger 2000d; Yağız et al. 2002; Ocak & Hasenekoğlu 2003a, 2005; Ergül et al. 2005a, b; Yağız & Afyon 2005, 2006a, 2007b; Demirel et al. 2006; Oran et al. 2006; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2015; Ocak 2015; Oskay & Tüzün 2015), *T. erecta* Rex (Ocak & Hasenekoğlu 2005; Baba et al. 2013b; Baba & Zümre 2015), *T. favoginea* (Batsch) Pers. (Härkönen 1988; Ergül & Dülger 2000d; Ergül et al. 2005a; Ocak & Hasenekoğlu 2005; Yağız & Afyon 2005; Baba & Tamer 2008a; Ergül & Akgül 2011), *T. flavicoma* (Lister) Ing (Yağız & Afyon 2006a), *T. lutescens* (Lister) Lister (Gücin & Öner 1986; Ergül & Dülger 2000d; Demirel et al. 2006; Baba & Tamer 2008a; Baba et al. 2013b; Baba & Zümre 2015), *T. munda* (Lister) Meyl. (Baba et al. 2013b), *T. persimilis* P. Karst. (Baba et al. 2015), *T. subfusca* Rex (Oran & Ergül 2004), *T. varia*

(Pers. ex J.F. Gmel.) Pers. (Gücin & Öner 1986; Ergül & Dülger 2000d; Ergül et al. 2005a, b; Yağız & Afyon 2005; Demirel et al. 2006; Oran et al. 2006; Baba & Tamer 2008a; Ergül & Akgül 2011; Baba et al. 2013b, 2015; Eroğlu & Kaşık 2013a), *T. verrucosa* Berk. (Oran et al. 2006; Baba & Tamer 2008a; Baba et al. 2013b, 2015)

## A list of synonyms

- Amaurochaete fuliginosa* (Sowerby) T. Macbr. = *Amaurochaete atra*  
*Arcyria gulielmae* Nann.-Bremek. = *Arcyria minuta*; *Arcyria nutans* (Bull.) Grev. = *Arcyria obvelata*  
*Badhamia dearnessii* Hagelst. = *Badhamia goniospora*; *Badhamia gracilis* (T. Macbr.) T. Macbr. = *Badhamia melanospora*; *Badhamia nitens* var. *reticulata* (Berk. & Broome ex Masse) G. Lister = *Badhamia nitens*  
*Collaria elegans* (Racib.) Dhillon & Nann.-Bremek. ex Ing = *Comatricha elegans*  
*Comatricha acanthodes* Alexop. = *Paradiacheopsis acanthodes*; *Comatricha lurida* Lister = *Collaria lurida*; *Comatricha pulchella* var. *fusca* (Lister) G. Lister = *Comatricha pulchella* var. *pulchella*  
*Cribraria cancellata* var. *fusca* (Lister) Nann.-Bremek = *Cribraria cancellata* var. *cancellata*  
*Dictydium* Schrad. = *Cribraria*; *Dictydium cancellatum* (Batsch) T. Macbr. = *Cribraria cancellata*  
*Enteridium liceoides* (Lister) G. Lister = *Reticularia liceoides*; *Enteridium splendens* (Morgan) T. Macbr. = *Reticularia splendens*; *Enteridium splendens* var. *juratum* (Meyl.) Härk. = *Reticularia jurana*  
*Famintzinia fruticulosa* (O.F. Müll.) Lado = *Ceratiomyxa fruticulosa*  
*Fuligo candida* Pers. = *Fuligo septica*  
*Hemitrichia imperialis* G. Lister = *Arcyria imperialis*; *Hemitrichia karstenii* (Rostaf.) Lister = *Trichia contorta*  
*Hyporhamma calyculatum* (Speg.) Lado = *Hemitrichia calyculata*; *Hyporhamma clavatum* (Pers.) Lado = *Hemitrichia clavata*; *Hyporhamma leiocarpum* (Cooke) Lado (as *H. leiocarpa*) = *Hemitrichia leiocarpa*; *Hyporhamma minus* (G. Lister) Lado (as *H. minor*) = *Hemitrichia minor*  
*Lachnobolus ater* (Alb. & Schwein.) Lado (as *L. atrus*) = *Amaurochaete atra*  
*Lamproderma atrosporum* Meyl. = *Meriderma cribrarioides*  
*Lycogala terrestre* Fr. = *Lycogala epidendrum*  
*Macbrideola cornea* var. *macrospora* Nann.-Bremek. = *Macbrideola macrospora*  
*Physarum nutans* Pers. = *Physarum album*  
*Stemonitis hyperopta* Meyl. = *Stemonitopsis hyperopta*; *Stemonitis nigrescens* Rex = *Stemonitis fusca*  
*Stemonitopsis irregularis* (Rex) T.N. Lakh. & Mukerji = *Stemonaria irregularis*  
*Trichia contorta* var. *karstenii* (Rostaf.) Ing = *Trichia contorta* var. *contorta*; *Trichia decipiens* var. *olivacea* (Meyl.) Meyl. = *Trichia crateriformis*  
*Tubulifera arachnoidea* Jacq. = *Tubifera ferruginosa*

## Excluded records

*Badhamia utricularis* var. *microspora* Dülger & Gönüz (Dülger & Gönüz, 2005; as ‘*B. microsporus*’) (*nom. inval.*, Art. 40.6)

*Comatricha dictyospora* L.F. Čelak. (*nom. dub.*; see Martin & Alexopoulos 1969: 277; Lado 2016)

## Discussion

The total number of correct names of species of myxomycetes, recognized as occurring in Turkey, is 252 (Table 1). Two taxa were treated as doubtful or had invalidly published names and thus were included in a list of excluded records, providing reasons for their exclusion.

**Table 1.** Diversity of myxomycetes in Turkey

Orders/Families	Genera	Species
<i>Acrasida</i>		
<i>Guttulinaceae</i>	<i>Pocheina</i>	1
<i>Protostelida</i>		
<i>Ceratiomyxaceae</i>	<i>Ceratiomyxa</i>	1
<i>Echinostellida</i>		
<i>Clastodermataceae</i>	<i>Clastoderma</i>	2
<i>Echinosteliaceae</i>	<i>Echinostelium</i>	10
<i>Liceida</i>		
<i>Cribrariaceae</i>	<i>Cribraria</i>	16
	<i>Lindbladia</i>	1
	<i>Dictydiaethalium</i>	1
<i>Dictydiaethaliaceae</i>	<i>Licea</i>	21
<i>Liceaceae</i>	<i>Lycogala</i>	3
<i>Tubiferaceae</i>	<i>Reticularia</i>	4
	<i>Tubifera</i>	1
	<i>Diderma</i>	9
	<i>Didymium</i>	21
<i>Physarida</i>	<i>Mucilago</i>	1
<i>Didymiaceae</i>	<i>Badhamia</i>	15
	<i>Badhamiopsis</i>	1
	<i>Craterium</i>	3
<i>Physaraceae</i>	<i>Fuligo</i>	2
	<i>Leocarpus</i>	1
	<i>Physarum</i>	32
	<i>Protophysarum</i>	1
	<i>Willkommlangea</i>	1

Table 1. (continued)

Orders/Families	Genera	Species
	<i>Amaurochaete</i>	3
	<i>Collaria</i>	3
	<i>Comatricha</i>	11
	<i>Diachea</i>	1
	<i>Diacheopsis</i>	1
	<i>Enerthenema</i>	1
<i>Stemonitida</i>	<i>Lamproderma</i>	4
<i>Stemonitidaceae</i>	<i>Macbrideola</i>	7
	<i>Meriderma</i>	1
	<i>Paradiacheopsis</i>	6
	<i>Stemonaria</i>	1
	<i>Stemonitis</i>	11
	<i>Stemonitopsis</i>	7
	<i>Symphytocarpus</i>	4
	<i>Arcyria</i>	19
<i>Trichiida</i>	<i>Calomyxa</i>	1
<i>Arcyriaceae</i>	<i>Dianema</i>	3
<i>Dianemataceae</i>	<i>Arcyodes</i>	1
	<i>Hemitrichia</i>	5
<i>Trichiaceae</i>	<i>Metatrichia</i>	2
	<i>Oligonema</i>	2
	<i>Perichaena</i>	5
	<i>Prototrichia</i>	1
	<i>Trichia</i>	15
Total	46	252

The richest genera in terms of the number of species are *Physarum* (32 species), *Licea* (21), *Didymium* (21) and *Arcyria* (19).

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