

Checklist of the myxomycetes in Turkey

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Abstract. This paper attempts to compile available data on Turkish myxomycetes published between 1957 and June 2007, and obtained from 51 publications. In the list, all taxa of myxomycetes are given in alphabetical order. The total number of correct species names established for Turkey is 202 and references for each taxon are cited.

Key words: checklist, myxomycetes, taxonomy, Turkey

Intoruduction

While a number of studies on the mycota of Turkey have been published, the investigations on Turkish myxobiota are very recent. The first myxomycete records are in works on macrofungi (Lochweg 1957, 1964). Detailed works by Finnish scientists appeared after a gap of twenty years (Härkonen & Uotila 1983; Härkonen 1987). The first specific accounts by Turkish workers began later on (Gücin & Öner 1986). In particular, a PhD thesis on the myxomycetes of the Southern Marmara region raised the number of known Turkish species (Ergül 1993). During the next years, there has been an important increase in records. A general checklist of the myxomycetes of the Mediterranean region, which included also Turkish records, was published by Lado (1994). Then, the two checklists were compiled by Ergül & Dülger (2000) and Sesli & Denchev (2005).

The aim of the present study is to summarize the species data on myxomycetes recorded in Turkey and published in different journals. This summary is a helpful guide for future taxonomic investigations.

Material and Methods

In the list of myxomycetes, the taxa are given in alphabetical order: orders within each class, families within each order,

etc. The number within square brackets, following the authors' names of each species or infraspecific taxon, refers to reference(s), where the taxon has been previously reported. A number [001-051] is assigned to each reference in the section "Bibliography of the Turkish myxomycetes". Authors' names are cited according to the *Authors of Fungal Names* (Kirk & Ansell 1992).

A list of *Myxomycetes*

PROTOSTELIOMYCETES

Protosteliales

Ceratiomyxaceae

Famintzinia fruticulosa (O.F. Müll.) Lado [02, 14, 21, 22, 28, 37, 39, 46, 49, 50]

MYXOMYCETES

Echinosteliales

Clastodermataceae

Clastoderma debaryanum A. Blytt [14, 22, 37, 39], *C. pachypus* Nann.-Bremek. [14, 39]

Echinosteliaceae

Echinostelium apitectum K.D. Whitney [22], *E. arboreum* H.W. Keller & T.E. Brooks [14, 22], *E. coelocephalum*

T.E. Brooks & H.W. Keller [14], *E. coliculosum* K.D. Whitney & H.W. Keller [14, 29], *E. corynophorum* K.D. Whitney [14, 27], *E. cribrarioides* Alexop. [14], *E. elachiston* Alexop. [14, 28], *E. fragile* Nann.-Bremek. [14, 27], *E. ladoi* Pando [38], *E. minutum* de Barry [09, 14, 22, 28, 29, 34, 35, 37, 39, 50]

Liceales

Cribrariaceae

Cribraria argillacea (Pers. ex J.F. Gmel.) Pers. [02, 17, 21, 34, 37], *C. aurantiaca* Schrad. [14, 21, 39, 50], *C. cancellata* (Batsch) Nann.-Bremek. [02, 09, 14, 18, 21, 22, 34, 35, 37, 39, 50, 51], *C. elegans* Berk. & M.A. Curtis [17, 22], *C. intricata* Schrad. [02, 34, 37, 50], *C. languescens* Rex [50], *C. macrocarpa* Schrad. [34, 37], *C. microcarpa* (Schrad.) Pers. [17, 22, 34, 37, 39], *C. minutissima* Schwein. [14], *C. personii* Nann.-Bremek. [49, 50], *C. tenella* Schrad. [17, 21], *C. violacea* Rex [09, 14, 22, 29, 39, 50], *C. vulgaris* Schrad. [02, 38, 50]

Lindbladia tubulina Fr. [17, 22]

Liceaceae

Licea belmontiana Nann.-Bremek. [22, 38, 50], *L. biforis* Morgan [34, 37, 50], *L. castanea* G. Lister [14, 22, 35, 39, 50], *L. denudescens* H.W. Keller & T.E. Brooks [14, 29, 35], *L. inconspicua* T.E. Brooks & H.W. Keller [22, 38], *L. kleistobolus* G.W. Martin [14, 22, 28, 29, 37, 39], *L. minima* Fr. [02, 14, 37, 39, 50], *L. operculata* (Wingate) G.W. Martin [14, 37, 39, 50], *L. parasitica* (Zukal) G.W. Martin [14, 22, 37, 39], *L. pedicellata* T.E. Brooks & H.W. Keller [14, 39], *L. perexigua* T.E. Brooks & H.W. Keller [38], *L. punctiformis* G.W. Martin [14, 22, 39], *L. pusilla* Schrad. [02, 14, 22, 37, 39], *L. pygmaea* (Meyl.) Ing [14, 19], *L. scyphoides* T.E. Brooks & H.W. Keller [22], *L. synsporae* Nann.-Bremek. [36], *L. tenera* E. Jahn [14, 22, 35], *L. tuberculata* G.W. Martin [34, 35], *L. variabilis* Schrad. [36]

Reticulariaceae

Lycogala epidendrum (L.) Fr. [02, 09, 14, 21, 22, 25, 26, 28, 30, 32, 33, 37, 40, 41, 42, 43, 44, 46, 47, 48], *L. exiguum* Morgan [34, 37, 38], *L. flavofuscum* (Ehrenb.) Rostaf. [14, 21, 22], *L. terrestre* Fr. [31, 46]

Reticularia lycoperdon Bull. [03, 31, 46], *R. splendens* Morgan [14, 23, 25, 26, 44], *R. jurana* Meyl. [22]

Tubulifera arachnoidea Jacq. [17, 22, 34, 37, 46, 50]

Physarales

Didymiaceae

Diderma chondrioderma (de Bary & Rostaf.) G.Lister [09, 14, 22], *D. hemisphaericum* (Bull.) Hornem. [14, 22, 37], *D. niveum* (Rostaf.) T. Macbr. [22], *D. testaceum* (Schrad.) Pers. [17, 22]

Didymium anellus Morgan [34, 37], *D. bahiense* Gottsb. [17, 22], *D. crustaceum* Fr. [34, 35], *D. difforme* (Pers.) Gray [14, 50], *D. eximium* Peck [17, 22], *D. floccosum*

G.H. Martin, K.S. Thind & Rehill [06, 09, 14], *D. iridis* (Ditmar) Fr. [36], *D. minus* (Lister) Morgan [14], *D. nigripes* (Link) Fr. [17, 22, 34, 37], *D. quitense* (Pat.) Torrend [14, 29, 35, 37], *D. squamulosum* (Alb. & Schwein.) Fr. [14, 29, 35, 37], *D. sturgisii* Hagelst [22]

Mucilago crustacea F.H. Wigg [14, 15]

Physaraceae

Badhamia affinis Rostaf. [22, 29, 49], *B. capsulifera* (Bull.) Berk. [17, 49, 50], *B. dearnessii* Hagelst. [50], *B. foliicola* Lister [09, 14, 22, 29, 35, 37, 39, 49], *B. goniospora* Meyl. [22], *B. macrocarpa* (Ces.) Rostaf. [02, 14, 22, 24, 35, 39, 51], *B. nitens* Berk. [14, 22, 39], *B. panicea* (Fr.) Rostaf. [02, 14, 29, 35, 37, 51], *B. papaveracea* Berk. & Revenel [22], *B. populina* Lister & G. Lister [22], *B. utricularis* (Bull.) Berk. [38, 50], *B. utricularis* (Bull.) Berk. var. *microsporus* Dulger & Gonuz [04], *B. versicolor* Lister [14, 22, 29, 39], *B. viridescens* Meyl. [14]

Badhamiopsis ainoae (Yamash.) T.E. Brooks & H.W. Keller [14, 22, 35]

Craterium concinnum Rex [37], *C. minutum* (Leers) Fr. [17, 21]

Fuligo septica (L.) F.H. Wigg. [14, 17, 19, 21, 22, 37, 39]

Leocarpus fragilis (Dicks.) Rostaf. [09, 14, 37, 49]

Physarum album (Bull.) Chevall [09, 14, 21, 22, 37, 39, 51], *Ph. auriscalpium* Cooke [02, 22, 28, 39], *Ph. bitectum* G. Lister [14, 28], *Ph. cinereum* (Batsch) Pers. [14, 28, 35, 37], *Ph. compressum* Alb. & Schwein. [14], *Ph. contextum* (Pers.) Pers. [14, 29], *Ph. decipiens* M.A. Curtis [06, 14, 22, 29, 35, 49, 51], *Ph. flavicomum* Berk. [17, 21, 39], *Ph. globuliferum* (Bull.) Pers. [22], *Ph. leucophaeum* Fr. [14, 35, 50], *Ph. leucopus* Link [35], *Ph. luteolum* Peck [38], *Ph. notabile* T. Macbr. [14, 22], *Ph. nutans* Pers. [02, 06, 50], *Ph. oblatum* T. Macbr. [14], *Ph. ovisporum* G. Lister [17], *Ph. pusillum* (Berk. & M.A. Curtis) G. Lister [06, 08, 09, 14, 35, 39], *Ph. vernum* Sommerf. [38], *Ph. viride* (Bull.) Pers. [09, 14, 21, 37, 39, 50]

Protophysarum phloiogenum M. Blackw. & Alexop. [38]

Stemonitales

Stemonitaceae

Collaria arcyrionema (Rostk.) Nann.-Bremek. [22, 38], *C. lurida* (Lister) Nann.-Bremek. [02, 14, 35, 37], *C. rubens* (Lister) Nann.-Bremek. [28]

Comatrichia elegans (Racib.) G. Lister [14, 28, 37], *C. ellae* Härk [14, 39, 49], *C. laxa* Rostaf. [02, 06, 09, 14, 22, 28, 39], *C. nigra* (Pers. ex J.F.Gmel.) J.Schröt. [02, 06, 09, 14, 22, 28, 35, 37, 39, 50, 51], *C. pulchella* (C.Bab. ex Berk.) Rostaf. [02, 16, 34, 37, 50, 51], *C. tenerrima* (M.A. Curtis) G.Lister [34, 37, 39]

Diachea leucopodia (Bull.) Rostaf. [14, 29, 39]

Enerthenema papillatum (Pers.) Rostaf. [02, 14, 29, 35, 37, 39, 49, 50]

- Lamproderma arcyrrioides* (Sommerf.) Rostaf. [14, 28], *L. columbinum* (Pers.) Rostaf. [38], *L. scintillans* (Berk. & Broome) Morgan [34, 37]
- Macbrideola cornea* (G. Lister & Cran) Alexop. [14, 22, 28, 29, 37, 39, 49, 50], *M. decapillata* H.C. Gilbert [06, 14, 22, 50, 51], *M. dubia* Nann.-Bremek. & Y. Yamam. [22], *M. macrospora* (Nann.-Bremek.) Ing [50], *M. martini* (Alexop. & Beneke) Alexop. [38], *M. scintillans* H.C. Gilbert [17, 22], *M. synsporus* (Alexop.) Alexop. [14, 22]
- Paradiacheopsis acanthodes* (Alexop.) Nann.-Bremek. [11, 34, 37, 39], *P. cribrata* Nann.-Bremek. [38], *P. fimbriata* (G. Lister & Cran) Hertel ex Nann.-Bremek. [14, 28, 29, 39], *P. microcarpa* (Meyl.) D.W. Mitch. ex Ing [38], *P. rigida* (Brândză) Nann.-Bremek. [11, 38], *P. solitaria* (Nann.-Bremek.) Nann.-Bremek. [11, 39]
- Semonaria irregularis* (Rex) Nann.-Bremek., R. Sharma & Y. Yamam. [17]
- Semonitis axifera* (Bull.) T. Macbr. [17, 21, 22, 34, 37, 39], *S. flavogenita* E. Jahn [14, 21, 22, 29, 39, 49], *S. fusca* Roth [06, 09, 14, 21, 29, 37, 39, 46, 49], *S. herbatica* Peck [17, 21, 22, 34, 37, 39, 51], *S. nigrescens* Rex [14, 49], *S. pallida* Wingate [17, 21, 22, 50], *S. smithii* T. Macbr. [02, 17, 21, 22, 34, 37, 39], *S. splendens* Rostaf. [14, 21, 22, 49], *S. virginiensis* Rex [17, 21, 22, 50]
- Semonitopsis amoena* (Nann.-Bremek.) Nann.-Bremek. [49], *S. gracilis* (B. Lister) Nann.-Bremek. [49], *S. hyperopta* (Meyl.) Nann.-Bremek. [14, 35, 37, 50], *S. microspora* (Lister) Nann.-Bremek. [13, 50], *S. reticulata* (H.C. Gilbert) Nann.-Bremek. [14], *S. subcaespitosa* (Peck) Nann.-Bremek. [17, 39], *S. typhina* (F.H. Wigg.) Nann.-Bremek. [13, 14, 21, 22, 28, 39]
- Symphytocarpus flaccidus* (Lister) Ing & Nann.-Bremek. [10, 14]

Trichiales

Arcyriaceae

- Arcyria affinis* Rostaf. [17, 21, 50], *A. anulifera* Torrend [38], *A. cinerea* (Bull.) Pers. [02, 06, 14, 21, 22, 28, 29, 35, 37, 39, 50], *A. denudata* (L.) Wettst. [14, 21, 22, 28, 37, 39], *A. ferruginea* Saut. [17, 39], *A. globosa* Schwein. [02, 34, 37, 49, 50], *A. incarnata* (Pers. ex J.F. Gmel) Pers. [02, 06, 14, 21, 22, 37, 39, 49, 50, 51], *A. insignis* Kalchbr. & Cooke [14, 21, 22, 37], *A. magna* Rex [02, 34, 37], *A. major* B. Ing [49], *A. minuta* Buchet [12, 14, 17, 39], *A. nigella* Emoto [34, 37], *A. obvelata* (Oeder) Onsberg [02, 06, 09, 14, 21, 22, 35, 37, 39, 46, 49, 50], *A. occidentalis* (Macbr.) G. Lister [05], *A. oerstedtii* Rost. [06, 50], *A. pomiformis* (Leers) Rostaf. [02, 14, 21, 28, 29, 34, 35, 37, 50], *A. stipata* (Schwein.) Lister [02, 17, 21], *A. versicolor* W. Philips [14, 28, 35, 37, 39]

Dianemataceae

- Calomyxa metallica* (Berk.) Niuwl. [14, 39]

- Dianema corticatum* Lister [37], *D. harveyi* Rex [22], *D. repens* G. Lister & Cran [17]

Trichiaceae

- Hyporhamma calyculata* (Speg.) Lado [14, 15, 21, 22, 39], *H. clavata* (Pers.) Lado [14, 28], *H. leiocarpa* (Cooke) Lado [38], *H. minor* (G. Lister) Lado [22, 38]
- Lachnobolus atrus* (Alb. & Schwein.) Lado [01, 14, 45]
- Metatrachia floriformis* (Schwein.) Nann.-Bremek. [38], *M. vesparium* (Batsch) Nann.-Bremek. ex G.W. Martin & Alexop. [14, 18, 21, 39, 49]
- Oligonema schweinitzii* (Berk.) G.W. Martin [36]
- Perichaena chrysosperma* (Curr.) Lister [09, 14, 22, 37, 39, 49, 50], *P. corticalis* (Batsch) Rostaf. [14, 22, 28, 29, 35, 37, 39], *P. tesellata* G. Lister [22, 38], *P. vermicularis* (Schwein.) Rostaf. [14, 22, 35, 39]
- Trichia affinis* de Bary [17, 21, 39], *T. alpina* (R.E. Fr.) Meyl. [14, 28], *T. botrytis* (J.F. Gmel.) Pers. [14, 21, 35, 37, 39, 46, 50], *T. contarta* (Ditmar) Rostaf. var. *contarta* [02, 14, 22, 29, 39], *T. contarta* var. *karstenii* (Rostaf.) Ing [14, 20], *T. decipiens* (Pers.) T. Macbr. [02, 14, 21, 22, 28, 35, 37, 39, 49, 50, 51], *T. erecta* Rex [34, 37], *T. favoginea* (Batsch) Pers. [14, 21, 28, 37, 49], *T. flavicoma* (Lister) Ing. [50], *T. lutescens* (Lister) Lister [02, 14, 24], *T. subfusca* Rex [38], *T. varia* (Pers. ex J.F. Gmel.) Pers. [02, 14, 21, 22, 24, 39, 49], *T. verrucosa* Berk. [39]

Result

The present study is an attempt to summarize the species of myxomycetes recorded in Turkey. The number of myxomycetes taxa reached 202, both using the moist chamber technique and naturally found in Turkey. The paper will be helpful for creating a database of the Turkish myxobiota.

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