

## Appendix 1. The list of the silica-scaled chrysophytes recorded in Hungary using electron microscopy until nowadays.

- Chrysosphaerella annulata* J. Kristiansen et D. Tong – BARRETO 2005, KRISTIANSEN and PADISÁK 1992, PADISÁK *et al.* 2000
- Chrysosphaerella brevispina* Korshikov – BARRETO 2005, BARRETO *et al.* 2000, PADISÁK *et al.* 2000, 2015, PÉTERFI *et al.* 1998a, 1998b
- Lepidochromonas butcheri* (Pennick et K. J. Clarke) Kapustin et Guiry (= *Paraphysomonas* sp. cf. *butcheri* Pennick et K. J. Clarke) – BARRETO 2005, BARRETO *et al.* 2000
- Lepidochromonas diademifera* (E. Takahashi) J. Kristiansen (= *Paraphysomonas diademifera* (Takahashi) Preisig et D. J. Hibberd) – BARRETO 2005
- Lepidochromonas eiffelii* (H. A. Thomsen) Kapustin et Guiry (= *Paraphysomonas eiffelii* H. A. Thomsen) – BARRETO 2005, PADISÁK *et al.* 2015
- Lepidochromonas runcinifera* (Preisig et D. J. Hibberd) Kapustin et Guiry (= *Paraphysomonas runcinifera* Preisig et D. J. Hibberd) – BARRETO 2005
- Lepidochromonas stelligera* (Preisig et D. J. Hibberd) Kapustin et Guiry (= *Paraphysomonas stelligera* Preisig et D. J. Hibberd) – BARRETO 2005
- Lepidochromonas subrotacea* (H. A. Thomsen) Kapustin et Guiry (= *Paraphysomonas subrotacea* H. A. Thomsen) – BARRETO 2005
- Lepidochromonas takahashii* (Cronberg et Kristiansen) Kapustin et Guiry (= *Paraphysomonas takahashii* Cronberg et Kristiansen) – BARRETO 2005
- Lepidochromonas undulata* (Preisig et D. J. Hibberd) Kapustin et Guiry (= *Paraphysomonas undulata* Preisig et D. J. Hibberd) – BARRETO 2005
- Mallomonas scalaris* Dürschmidt – PÉTERFI *et al.* 1998b
- Mallomonas alata* Asmund, Cronberg et Dürschmidt – BARRETO 2005, BARRETO *et al.* 2000, PADISÁK *et al.* 2015, PÉTERFI *et al.* 1998b
- Mallomonas allorgei* (Deflandre) Conrad – BARRETO 2005
- Mallomonas alpina* Pascher et Ruttner – BARRETO 2005, BARRETO *et al.* 2000, KISS and KRISTIANSEN 1994, KRISTIANSEN and PADISÁK 1992, PADISÁK *et al.* 2000, PÉTERFI *et al.* 1998a
- Mallomonas annulata* (D. E. Bradley) K. Harris – BARRETO 2005, BARRETO *et al.* 2000, PADISÁK *et al.* 2000, 2015, PÉTERFI *et al.* 1998a, 1998b
- Mallomonas areolata* Nygaard – BARRETO 2005, PÉTERFI *et al.* 1998a, 1998b
- Mallomonas calceolus* D. E. Bradley – BARRETO 2005, PADISÁK *et al.* 2015, PÉTERFI *et al.* 1998a, 1998b
- Mallomonas caudata* Iwanoff [Ivanov] – BARRETO 2005, BARRETO *et al.* 2000, KISS and KRISTIANSEN 1994, PADISÁK *et al.* 2000, PÉTERFI *et al.* 1998a, 1998b
- Mallomonas clavus* D. E. Bradley – BARRETO 2005, PADISÁK *et al.* 2015, PÉTERFI *et al.* 1998b
- Mallomonas corymbosa* Asmund – PADISÁK *et al.* 2000, PÉTERFI *et al.* 1998a
- Mallomonas costata* Dürschmidt – BARRETO 2005
- Mallomonas crassisquama* (Asmund) Fott – BARRETO 2005, PÉTERFI *et al.* 1998a, 1998b
- Mallomonas cratis* K. Harris et D. E. Bradley – BARRETO 2005, BARRETO *et al.* 2000
- Mallomonas cucullata* S. Barreto – BARRETO 2001, 2005
- Mallomonas cyathellata* Wujek et Asmund – PADISÁK *et al.* 2000, PÉTERFI *et al.* 1998a
- Mallomonas doignonii* Bourrelly – BARRETO 2005
- Mallomonas elongata* Reverdin – BARRETO 2005, PADISÁK *et al.* 2000, PÉTERFI *et al.* 1998a
- Mallomonas formosa* S. Barreto – BARRETO 2001, 2005, PADISÁK *et al.* 2015
- Mallomonas foveata* (Dürschmidt) E. S. Gusev (= *Mallomonas mangofera* f. *foveata* Dürschmidt) – BARRETO 2005
- Mallomonas heterospina* J. W. G. Lund – BARRETO 2005, PADISÁK *et al.* 2015, PÉTERFI *et al.* 1998a, 1998b

*Mallomonas hualvensis* (Asmund, Cronberg et Dürrschmidt) Kapustin (= *Mallomonas alata* f. *hualvensis* Asmund, Cronberg et Dürrschmidt) – BARRETO 2005, PADISÁK *et al.* 2015

*Mallomonas inornata* K. H. Nicholls – BARRETO 2005

*Mallomonas insignis* Penard – BARRETO 2005, PADISÁK *et al.* 2015, PÉTERFI *et al.* 1998b

*Mallomonas intermedia* Kisselev – BARRETO 2005, PÉTERFI *et al.* 1998a

*Mallomonas lelymene* K. Harris et D. E. Bradley – BARRETO 2005, PADISÁK *et al.* 2015

*Mallomonas lichenensis* Conrad – BARRETO 2005, PADISÁK *et al.* 2015

*Mallomonas mangofera* K. Harris et D. E. Bradley – BARRETO 2005, PADISÁK *et al.* 2015, PÉTERFI *et al.* 1998b

*Mallomonas multiunca* Asmund – BARRETO 2005

*Mallomonas munda* (Asmund, Cronberg et Dürrschmidt) Nemcová (= *Mallomonas pumilio* var. *munda* Asmund, Cronberg et Dürrschmidt) – BARRETO 2005, PADISÁK *et al.* 2015

*Mallomonas oviformis* Nygaard – PADISÁK *et al.* 2015, PÉTERFI *et al.* 1998b

*Mallomonas papillosa* K. Harris et D. E. Bradley – BARRETO 2005, PADISÁK *et al.* 2015, PÉTERFI *et al.* 1998b

*Mallomonas parvula* Dürrschmidt – BARRETO 2005, BARRETO *et al.* 2000, PADISÁK *et al.* 2015

*Mallomonas paxillata* (D. E. Bradley) L. Ş. Péterfi et Momeu – BARRETO 2005, PÉTERFI *et al.* 1998a

*Mallomonas peronoides* (K. Harris) Momeu et L. Ş. Péterfi – BARRETO 2005

*Mallomonas pillula* f. *latimarginalis* Dürrschmidt – BARRETO 2005

*Mallomonas pillula* f. *valdiviana* Dürrschmidt – PADISÁK *et al.* 2015

*Mallomonas pillula* K. Harris – BARRETO 2005, PÉTERFI *et al.* 1998b

*Mallomonas ploesslii* Perty (= *Mallomonas acaroides* Perty) – BARRETO 2005, BARRETO *et al.* 2000, KISS and KRISTIANSEN 1994, KRISTIANSEN and PADISÁK 1992, PADISÁK *et al.* 2000, PÉTERFI *et al.* 1998b

*Mallomonas portae-ferreae* L. Ş. Péterfi et Asmund – PADISÁK *et al.* 2000, PÉTERFI *et al.* 1998a, 1998b

*Mallomonas pseudocratis* Dürrschmidt – BARRETO *et al.* 2000

*Mallomonas pumilio* K. Harris et D. E. Bradley – PADISÁK *et al.* 2015

*Mallomonas pumilio* var. *dispersa* Nemcová *et al.* – PADISÁK *et al.* 2015

*Mallomonas punctifera* Korshikov – BARRETO 2005, PADISÁK *et al.* 2000, PÉTERFI *et al.* 1998a, 1998b

*Mallomonas rasilis* Dürrschmidt – BARRETO 2005

*Mallomonas retifera* Dürrschmidt – BARRETO 2005, PADISÁK *et al.* 2015

*Mallomonas schwemmleri* Glenk – BARRETO 2005, BARRETO *et al.* 2000

*Mallomonas striata* Asmund – BARRETO 2005, BARRETO *et al.* 2000, PADISÁK *et al.* 2015

*Mallomonas teilingii* Conrad – BARRETO 2005, PADISÁK *et al.* 2000, PÉTERFI *et al.* 1998a, 1998b

*Mallomonas tolerans* Asmund et J. Kristiansen – BARRETO 2005

*Mallomonas tonsurata* Teiling – ÁCS and KISS 1991, BARRETO 2005, BARRETO *et al.* 2000, KISS 1987, KISS and KRISTIANSEN 1994, KRISTIANSEN and PADISÁK 1992, PADISÁK *et al.* 2000, PÉTERFI *et al.* 1998

*Mallomonas torquata* B. Asmund et G. Cronberg – BARRETO 2005

*Mallomonas transsylvanica* Péterfi et Momeu – PADISÁK *et al.* 2015, PÉTERFI *et al.* 1998b

*Mallomonas trummensis* Cronberg – BARRETO 2005

*Mallomonas tubulosa* S. Barreto – BARRETO 2001, 2005, PADISÁK *et al.* 2015

*Mallomonas akrokomos* Ruttner – BARRETO 2005, BARRETO *et al.* 2000, PADISÁK *et al.* 2015, PÉTERFI *et al.* 1998a, 1998b

*Neotessella lapponica* (Skuja) B. Y. Jo, J. I. Kim, W. Shin, P. Škaloud et P. A. Siver (= *Tessellaria lapponica* (Skuja) P. Škaloud, J. Kristiansen et M. Škaloudová) – PADISÁK *et al.* 2015

*Paraphysomonas acantholepis* Preisig et D. J. Hibberd – BARRETO 2005

*Paraphysomonas bandaiensis* Takahashi – BARRETO 2005

*Paraphysomonas caelifrica* Preisig et D. J. Hibberd – BARRETO 2005, PADISÁK *et al.* 2015

*Paraphysomonas circumforaminifera* Wujek – BARRETO 2005

*Paraphysomonas corynephora* Preisig et D. J. Hibberd – BARRETO 2005, BARRETO *et al.* 2000, PADISÁK *et al.* 2015

*Paraphysomonas gladiata* Preisig et D. J. Hibberd – BARRETO 2005  
*Paraphysomonas imperforata* I. A. N. Lucas – BARRETO 2005, BARRETO *et al.* 2000, PADISÁK *et al.* 2015  
*Paraphysomonas punctata* B. Zimmermann – BARRETO 2005, BARRETO *et al.* 2000, PADISÁK *et al.* 2015  
*Paraphysomonas punctata* subsp. *atrema* Preisig et D. J. Hibberd – BARRETO 2005  
*Paraphysomonas punctata* subsp. *simplicior* Preisig et D. J. Hibberd – BARRETO *et al.* 2000  
*Paraphysomonas* sp. cf. *circumvallata* H. A. Thomsen – BARRETO *et al.* 2000  
*Paraphysomonas subquadrangularis* Preisig et D. J. Hibberd) – BARRETO 2005  
*Paraphysomonas vestita* (A. Stokes) De Saedeleer – BARRETO 2005, BARRETO *et al.* 2000, HAJDU 1975, KRISTIANSEN and PADISÁK 1992, PADISÁK *et al.* 2000, 2015, PÉTERFI *et al.* 1998a  
*Polylepidomonas vacuolata* (H. A. Thomsen) Preisig et D. J. Hibberd – BARRETO 2005  
*Spiniferomonas abei* E. Takahashi – BARRETO 2005  
*Spiniferomonas bourrellyi* E. Takahashi – BARRETO 2005  
*Spiniferomonas cornuta* Balonov – BARRETO 2005, BARRETO *et al.* 2000  
*Spiniferomonas silverensis* K. H. Nicholls – BARRETO 2005  
*Spiniferomonas trioralis* E. Takahashi – BARRETO 2005, BARRETO *et al.* 2000, KRISTIANSEN and PADISÁK 1992, PADISÁK *et al.* 2000, 2015  
*Synura curtispina* (J. B. Petersen et J. B. Hansen) Asmund – BARRETO 2005, KISS and KRISTIANSEN 1994, KRISTIANSEN and PADISÁK 1992, PADISÁK *et al.* 2000, PÉTERFI *et al.* 1998a, 1998b  
*Synura curtispina* (J. B. Petersen et J. B. Hansen) Asmund (= *Synura curtispina* f. *reticulata*) – PADISÁK *et al.* 2015  
*Synura echinulata* Korshikov – BARRETO 2005, BARRETO *et al.* 2000, KISS and KRISTIANSEN 1994, PADISÁK *et al.* 2000, PÉTERFI *et al.* 1998b  
*Synura glabra* Korshikov – ÁCS and KISS 1991, PÉTERFI *et al.* 1998a  
*Synura mollispina* (J. B. Petersen et J. B. Hansen) L. Ş. Péterfi et Momeu – BARRETO 2005  
*Synura multidentata* (Balonov et G. V. Kuzmin) L. Ş. Péterfi et Momeu – PÉTERFI *et al.* 1998b  
*Synura petersenii* Korshikov – ÁCS and KISS 1991, BARRETO 2005, BARRETO *et al.* 2000, KISS 1987, KISS and KRISTIANSEN 1994, KRISTIANSEN and PADISÁK 1992, PADISÁK *et al.* 2000, 2015, PÉTERFI *et al.* 1998a  
*Synura petersenii* Korshikov (= *Synura petersenii* f. *kufferathii*) – BARRETO 2005  
*Synura prae fracta* (Asmund) Skaloud et Skaloudová (= *Synura petersenii* f. *prae fracta* Asmund) – BARRETO 2005  
*Synura spinosa* Korshikov – BARRETO 2005, BARRETO *et al.* 2000, PÉTERFI *et al.* 1998a, 1998b  
*Synura splendida* Korshikov – PÉTERFI *et al.* 1998a  
*Synura synuroidea* (Prowse) Pusztai, Certnerová, Skaloudová et Skaloud (= *Chrysodidymus synuroideus* Prowse) – PADISÁK *et al.* 2015  
*Synura uvella* Ehrenberg – BARRETO 2005, BARRETO *et al.* 2000, PADISÁK *et al.* 2000, 2015, PÉTERFI *et al.* 1998a, 1998b