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Synopsis of Literature for Determination of European Fungus Gnats (Diptera Sciaroidea: Ditomyiidae, Bolitophilidae, Keroplatidae, Diadocidiidae, Mycetophilidae, [Lygistorrhinidae])

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Abstract

A synoptic list of literature for determination of European fungus gnats (Diptera Sciaroidea: Ditomyiidae, Bolitophilidae, Keroplatidae, Diadocidiidae, Mycetophilidae, [Lygistorrhinidae]) is given. To each citation some notes about the contents are added.

Zusammenfassung

Die Arbeit präsentiert eine umfassende Literaturliste zur Bestimmung europäischer Pilzmücken (Diptera Sciaroidea: Ditomyiidae, Bolitophilidae, Keroplatidae, Diadocidiidae, Mycetophilidae, [Lygistorrhinidae]). Die Zitate sind mit kurzen Angaben zum Inhalt versehen.

Introduction

During the study of Bavarian fungus gnats (PLASSMANN & SCHACHT 2002) the lack of modern comprehensive publications for the determination of Central European species came into discussion. This fact has initialized the present synopsis of literature, same as was done by REISS (1996) for the Central European Chironomidae. Our list of determination literature may be a help to all specialists, students, amateurs and interested people working in the named families. Though, it may be subjective in some parts, it includes all main papers for the determination of European fungus gnats. An Internet version is planned soon after publication in the homepage of the Institute of Zoology and Botany of the Estonian Agricultural University for individual use: <<http://www.zbi.ee/olavi/>>

Many new species and revisions have been published during the last years from Europe and adjacent countries and even from central Europe. Three main aspects are regarded for the following list:

Geographical aspect: The aim of the paper is to give a review on European species. But it is difficult to treat the species separately from other Palaearctic and sometimes also

Holarctic species. Several species described from Siberia or Russian Far East or North America have later been found also in Europe (POLEVOI 2001). Consequently, important sources about whole Eurasian and some ones about North American fungus gnats are updated to the list. Included are also some papers dealing with Lygistorrhinidae, a family hitherto-not known from Europe.

Temporal aspect: The start of the list was originally planned with the year 1925, when one of the major papers on fungus gnat systematics was published by F. W. EDWARDS. But some important papers published before 1925, which are still unavoidable for determination of fungus gnats today, should not be ignored. The relevant papers of 4 authors, H. DZIEDZICKI, F. W. EDWARDS, K. LANDROCK and C. LUNDSTRÖM, published before 1925 are included to the list. SANTOS ABREU (1920), one of the main papers for the Canary Islands, is revised by CHANDLER & BLASCO-ZUMETA (2001), which registered in the list.

Principal aspect: The present list includes the papers which are important for determination of fungus gnats as well as the papers with descriptions of new species. For determination of fungus gnats, the examination of the male genitalia is unavoidable, consequently all papers with figures on male genitalia are included.

Before about 1980 the different published families of fungus gnats (Ditomyiidae, Bolitophilidae, Macroceridae, Keroplatidae, Diadocidiidae, Mycetophilidae, Manotidae and Lygistorrhinidae) were treated as subfamilies in the family Mycetophilidae. Since about 1980 these families are more and more treated separately. But there are authors even up to 2000 who use the name Mycetophilidae in the old way. The last study about the families we find in SØLI et al. (2000), who divide the fungus gnats (Sciaroidea exclusive Sciaridae) into 6 families: Ditomyiidae, Bolitophilidae, Keroplatidae with Macroceridae as subfamily, Diadocidiidae, Mycetophilidae with Manotidae as subfamily (SØLI 1997a list), and Lygistorrhinidae.

Important information about the contents of a paper which are not expressed by the title are given in brackets (which family or genera, keys, new species, figures etc.). In this small abstract we state the families following SØLI et al. (2000). If a paper is dealing with Mycetophilidae in the new way, this family is pointed out repeatedly, even if "Mycetophilidae" is stated in the title. What the genera and species concerns we follow the original publication. For their synonymy see the Catalogue of Palaeartic Diptera (HACKMAN, LAŠTOVKA, MATILE & VÄISÄNEN 1988; KRIVOSHEINA 1988; KRIVOSHEINA & MAMAEV 1988 a, b, c; MAMAEV & KRIVOSHEINA 1988; MATILE 1988; PLASSMANN 1988) and the Catalog of the Diptera of America North of Mexico (LAFFOON 1965). Titles dealing with praemaginal stages are included in the list, but not pointed out by additional information.

In the list below two markings are used:

Author(s) with asterisk (*) are main papers on fungus gnats taxonomy.

Author(s) with plus (+) are revisions of genera or species groups with key(s) to species.

The unmarked papers include descriptions of new species or/and figures, or/and other informations useful for determination.

List of Literature for Determination of European fungus gnats

- BARENDRECHT, G. 1938: The Dutch Fungivoridae in the collection of the Zoological Museum at Amsterdam. - Tijdschr. Entomol. 38: 35-54. [All families; 4 new species: *Allodia*, *Polyxena*, *Zygomyia*; 17 figures]
- BECHEV, D. 1985: *Acnemia vrazaticana* n. sp. from Bulgaria (Diptera, Mycetophilidae). - Reichenbachia, St. Mus. Tierk. Dresden, 23: 35-36. [4 figures]
- BECHEV, D. 1988 a: Two new species of Mycetophilidae from Bulgaria (Insecta, Diptera). - Reichenbachia, St. Mus. Tierk. Dresden, 25: 185-186. [*Ectrepesthoneura*, *Mycetophila*; 4 figures]

- BECHEV, D. 1988 b: *Sciophila zaitzevi* n. sp. from Bulgaria (Insecta, Diptera, Mycetophilidae). - Reichenbachia, St. Mus. Tierk. Dresden, 25: 187-188. [2 figures]
- BECHEV, D. 1989: *Monocentrotia matilei* n. sp. from Bulgaria and Algeria (Insecta, Diptera: Keroplatidae). - Reichenbachia, St. Mus. Tierk. Dresden, 26: 173-174. [2 figures]
- + BECHEV, D. 1990 a: Recent Holarctic species of the genus *Anaclileia* MEUNIER (Insecta, Diptera: Mycetophilidae). - Reichenbachia, St. Mus. Tierk. Dresden, 28: 67-71. [Key to species; 3 new species; 10 figures]
- + BECHEV, D. 1990 b: Review of the Holarctic Species of Genus *Polylepta* WINNERTZ (Insecta, Diptera: Mycetophilidae). - Ent. Abh. Staat. Mus. Tierk. Dresden 53: 179-184. [Key to species; 1 new species; 6 figures]
- BECHEV, D. 1991: *Macrocera gemagea* sp.n. from Bulgaria (Insecta, Diptera: Mycetophiloidea). - Reichenbachia, St. Mus. Tierk. Dresden, 28: 185-186. [2 figures]
- BECHEV, D. 1992 a: On the type specimens of *Macrocera nigricoxa* WINNERTZ, 1863 and *Macrorrhyncha exempla* (PLASSMANN, 1978) (Insecta: Diptera: Mycetophiloidea). - Senckenbergiana biol. 72: 317-320. [5 figures]
- BECHEV, D. 1992 b: A new species of Genus *Macrorrhyncha* (Diptera: Keroplatidae) from Bulgaria. - Acta zool. bulg. 45: 61-62. [*M. veleca* sp.n.; 4 figures]
- BECHEV, D. 1994: Redescription of some types of Keroplatidae (Diptera, Mycetophiloidea). - Dtsch. ent. Z., N.F., 41: 137-140. [7 figures]
- + BECHEV, D. 1995: The Palaearctic species of the genus *Sceptonia* WINNERTZ (Diptera: Mycetophilidae). - Trav. Sci. Univ. Plovdiv, Animalia., 31: 7-21. [Key to species; 25 figures]
- BECHEV, D. 1996: *Macrocera kerteszi* LUNDSTRÖM - a little known species (Diptera: Keroplatidae: Macrocerinae). - Folia ent. hung. 57: 77-78. [2 figures]
- BECHEV, D. 1997 a: Two new species of Mycetophilidae from Greece and the Netherlands (Insecta, Diptera, Mycetophilidae). - Spixiana 20: 179-180. [*Leia*, *Sceptonia*; 4 figures]
- BECHEV, D. 1997 b: *Macrorrhyncha geranias thracica* subspec. nov. from Greece (Insecta: Diptera: Keroplatidae). - Reichenbachia, St. Mus. Tierk. Dresden, 32: 105-106. [2 figures]
- BECHEV, D. 1998: The species of *Allodia* WINNERTZ on the Balkan Peninsula (Diptera, Mycetophilidae). - Acta zool. bulg. 50: 61-63. [3 figures]
- BECHEV, D. 1999: Species of the Genus *Phronia* WINNERTZ in Bulgaria (Diptera: Mycetophilidae). - Acta zool. bulg. 51: 39-42. [2 figures]
- BLAGODEROV, V.A. 1990: On the fauna of fungus gnats (Diptera, Mycetophilidae) in Yakut. - Vestn. Leningr. Universiteta 3: 122-123. [*Sciophila similis* sp.n.; 2 figures]
- BLAGODEROV, V.A. 1992: A preliminary list of fungus-gnats of Yakutia (Siberia) with descriptions of two new species (Diptera: Mycetophiloidea). - Ann. Upper Silesian Museum - Entomology, 3: 45-50. [2 new species: *Sciophila*, *Brevicornu*; 4 figures]
- BUKOWSKI, W. 1934: Neue und abweichende Formen von Pilzmücken (Diptera, Fungivoridae) aus der Krim. - Konowia 13: 184-192. [Bolitophilidae, Mycetophilidae incl. *Manota*; 14 new species: *Boletia*, *Brachypeza*, *Trichonta*, *Polyxena*, *Fungivora*, *Epicypia*, *Sceptonia*; 18 figures]
- BUKOWSKI, W. 1949: New species of fungus gnats (Diptera, Fungivoridae) from Crimea. - Entomol. Obozr. 30: 405-409 (in Russian). [7 new species: *Fungivora*, *Dynatosoma*, *Brachypeza*, *Exechia*, *Trichonta*; 7 figures]
- BURGHELE-BALACESCO, A. 1965 a: Specii noi de Mycetophilidae cavernicole din Romania. - Lucr. Inst. de speol. "Emil Rakovitã" 4: 171-179. [3 new species: *Exechia*, *Rhytmosia*; 3 figures]
- BURGHELE-BALACESCO, A. 1965 b: Révision des Mycetophilidae (Diptères) cavernicoles de la collection Biospeologica (1-3e série des "Grottes visitées"). - Annales Spéleol.

- 20: 151-155. [Bolitophilidae, Mycetophilidae; 4 figures]
- BURGHELE-BALACESCO, A. 1966 a: Diptères cavernicoles recueillis en Bulgarie. - *Lucr. Inst. Speol. "E. Rakovitã"* 2: 303 - 308. [Bolitophilidae, Mycetophilidae; 2 figures]
- BURGHELE-BALACESCO, A. 1966 b: Les Mycetophilidae (Diptères) cavernicoles de la collection Biospeologica (IV^e-VIII^e séries des "Grottes visitées"). - *Int. J. Speleol.* 2: 319-334. [Bolitophilidae, Mycetophilidae; 2 new species: *Exechia*, *Rhymosia*; 8 figures]
- BURGHELE-BALACESCO, A. 1972: Contribution à l'étude de Mycetophilidae des grottes de Roumanie avec la description de deux espèces nouvelles. - *Int. J. Speleol.* 3-4: 387-395. [Keroplastidae, Mycetophilidae; 2 new species: *Exechia*, *Rhymosia*; 4 figures]
- CASPERS, N. 1980: Drei neue Mycetophiliden aus der deutschen Mittelgebirgsregion (Diptera, Nematocera). - *Spixiana* 3: 141-145. [3 new species: *Allodia*, *Zygomyia*; 10 figures]
- CASPERS, N. 1984 a: Mycetophiliden aus Lunz, Niederösterreich (Diptera, Nematocera, Mycetophilidae). - *Entomofauna* 5: 173-205. [Ditomyiidae, Diadocidiidae, Mycetophilidae; 2 new species: *Phthinia*, *Exechia*; 27 figures]
- CASPERS, N. 1984 b: *Mycetophila lastovkai* sp.n., eine neue Pilzmücke aus dem Hunsrück (Bundesrepublik Deutschland) (Diptera, Nematocera, Mycetophilidae). - *Spixiana* 7: 315-318. [4 figures]
- CASPERS, N. 1984 c: Mycetophiliden-Fänge am Breitenbach/ Osthessen (Insecta, Diptera, Nematocera). - *Beitr. Naturk. Osthessen* 20: 109-121. [4 figures: *Allodia barbata* and *Platurocypta testata*]
- CASPERS, N. 1985: *Brevicornu (Brevicornu) arcticoides* sp.n. aus der deutschen Mittelgebirgsregion (Diptera, Nematocera, Mycetophilidae). - *Entomofauna* 6: 65-69. [3 figures]
- CASPERS, N. 1987: Mycetophiliden-Fänge am Breitenbach/ Osthessen (Bundesrepublik Deutschland) (Insecta, Diptera, Nematocera). 1. Nachtrag. - *NachrBl. bayer. Ent.* 36: 85-95. [Bolitophilidae, Mycetophilidae; 2 new species: *Anatella*, *Exechia*; 12 figures]
- CASPERS, N. 1991: New and remarkable species of Mycetophiloidea (Diptera, Nematocera) from the Mediterranean region. - *Spixiana* 14: 321-338. [Keroplastidae, Mycetophilidae; 6 new species: *Orfelia*, *Ectrepesthoneura*, *Leia*, *Anatella*, *Phronia*, *Sceptonia*; 29 figures]
- CASPERS, N. & PLASSMANN, E. 1986: Jüngere Synonyme in der Untergattung *Allodia (Brachycampta)* WINNERTZ, 1863. - *Senckenbergiana Biol.* 66: 255-260. [3 new synonyms; 6 figures]
- CHANDLER, P.J. 1975: *Brevicornu serenum* (WINNERTZ, 1863) (Diptera, Mycetophilidae) new to the British Isles, from Pett's Wood in South-East London. - *Proc. Brit. Ent. Nat. Hist. Soc.* 8: 5-7. [3 figures]
- + CHANDLER, P.J. 1976: *Gnoriste longirostris* SIEBKE (Diptera, Mycetophilidae) new to Britain: its synonymy with *G. groenlandica* LUNDBECK established. - *Proc. Brit. Ent. Nat. Hist. Soc.* 9: 36-41. [Key to European species; 4 figures]
- CHANDLER, P.J. 1977 a: Some fungus gnats of the tribe Exechiini (Dipt., Mycetophilidae) new to the British Isles. - *Proc. Brit. Ent. Nat. Hist. Soc.* 10: 71-85. [*Exechiopsis (E.) dryaspagensis* sp.n.; 15 figures]
- CHANDLER, P.J. 1977 b: Notes on British fungus gnats of the sub-families Ditomyiinae, Bolitophilinae, Diadocidiinae, Manotinae and Keroplastinae (Diptera, Mycetophilidae). - *Entomol. Month. Mag.* 113: 31-44. [9 figures]
- + CHANDLER, P.J. 1977 c: Studies of some fungus gnats (Diptera: Mycetophilidae) including nine additions to the British list. - *Systematic Entomology* 2: 67-93. [Mycetophilidae; key for identification of *Anatella* species; 69 figures]
- CHANDLER, P.J. 1977 d: *Mycetophila strigatoides* (LANDROCK): an overlooked British Fungus Gnat (Diptera: Mycetophilidae). - *Entomologist's Record* 89: 323-325. [4

- figures]
- + CHANDLER, P.J. 1978: Notes on the Holarctic Species of *Pseudexechia* TUOMIKOSKI (Diptera: Mycetophilidae), with the Description of a New British Species. - Entomologist's Record 90: 44-51. [Key to species; 10 figures]
- + CHANDLER, P.J. 1980: The European and eastern Nearctic fungus-gnats in the genus *Ectrepesthoneura* (Mycetophilidae). - Systematic Entomology 5: 27-41. [Key to species; 2 new species; 27 figures]
- + CHANDLER, P.J. 1981: The European and North American species of *Epicrypta* WINNERTZ (Diptera: Mycetophilidae). - Ent. scand. 12: 199-212. [Key to species; 2 new species; 19 figures]
- CHANDLER, P.J. 1987: Notes on British fungus gnats of the smaller families and sub-families (Diptera, Mycetophiloidea). - Proc. Trans. Br. Ent. Nat. Hist. Soc. 20: 105-118. [Bolitophilidae, Diadocidiidae, Keroplatidae, Mycetophilidae; 2 new species: *Monocentrotia*, *Sciophila*; 29 figures]
- CHANDLER, P.J. 1988: Thirteen species of *Mycetophila* MEIGEN (Diptera: Mycetophilidae) new to the British list. - Br. J. Ent. Nat. Hist. 1: 139-145. [5 figures]
- CHANDLER, P.J. 1989: Notes on *Macrocera* MEIGEN (Mycetophiloidea, Keroplatidae) including *M. nigropicea* LUNDSTRÖM new to Britain. - Dipterists Digest 3: 27-31. [2 figures]
- CHANDLER, P.J. 1991: New species and additions to the British list of the fungus gnat genera *Zygomia* WINNERTZ and *Sceptonia* WINNERTZ (Diptera, Mycetophilidae). - Br. J. Ent. Nat. Hist. 4: 143-155. [6 new species; 37 figures]
- CHANDLER, P.J. 1992 a: A review of the British *Phronia* WINNERTZ, and *Trichonta* WINNERTZ (Dipt., Mycetophilidae). - Entomol. Month. Mag. 128: 237-254. [3 new species; 18 figures]
- CHANDLER, P.J. 1992 b: New records and nine additions to the British list of fungus gnats of the smaller families and sub-families (Diptera: Mycetophiloidea). - Br. J. Ent. Nat. Hist. 5: 107-126. [Bolitophilidae, Keroplatidae, Mycetophilidae; 31 figures]
- CHANDLER, P.J. 1993: The Holarctic species of the *Mycetophila fungorum* (DE GEER) group (Diptera: Mycetophilidae). - Br. J. Ent. Nat. Hist. 6: 5-11. [4 new species; 22 figures]
- CHANDLER, P.J. 1994 a: *Rymosia* WINNERTZ (Diptera: Mycetophilidae), a newly recognised element of wetland faunas, with five species new to Britain and key to species. - Entomologist's Gazette 45: 199-220. [Key to British species; 4 new species; 4 maps; 10 plates of genital figures]
- CHANDLER, P.J. 1994 b: Four species of *Anatella* WINNERTZ (Diptera, Mycetophilidae) new to the British Isles. - Dipterists Digest (Second series) 1: 9-12. [*A. bremia* sp.n.; 3 figures]
- * CHANDLER, P.J. 1994 c: Fungus gnats of Israel (Diptera: Sciaroidea, excluding Sciaridae). - Israel Journal of Entomology 28: 1-100. [Diadocidiidae, Keroplatidae, Mycetophilidae; revised data on 88 species; keys to species; 26 new species: *Diadocidia*, *Macrocera*, *Macrorrhyncha*, *Neoplatyura*, *Orfelia*, *Pyratula*, *Truplaya*, *Urytalpa*, *Xenoplatyura*, *Acnemia*, *Docosia*, *Mycomya*, *Sciophila*; 96 figures for 29 species]
- CHANDLER, P.J. 1995: New data on fungus gnats (Diptera, Sciaroidea excluding Sciaridae) of Czechoslovakia. - Annotationes Zoologicae et Botanicae 217: 3-16. [Keroplatidae, Mycetophilidae; 2 new species: *Urytalpa*, *Boletina*; 16 figures]
- CHANDLER, P.J. 1998: *Creaghubhia mallochorum* gen. and sp.n. (Diptera: Mycetophilidae), a remarkable new Scottish gnat with a discussion of its relationships. - Br. J. Ent. Nat. Hist. 12: 121-134. [20 figures]
- CHANDLER, P.J. 2001: Fungus gnats (Diptera: Sciaroidea) new to Britain. - Br. J. Ent. Nat. Hist. 13: 215-243. [Ditomyiidae, Keroplatidae, Mycetophilidae; 6 new species: *Clastobasis*, *Sciophila*, *Brevicornu*, *Mycetophila*, *Phronia*; 46 figures]

- * CHANDLER, P.J. 2002: *Heterotricha* LOEW and allied genera (Diptera: Sciaroidea): offshoots of the stem group of Mycetophilidae and/ or Sciaridae. - Ann. Soc. entomol. Fr. (n.s.) 38: 101-144. [Keys to genera of the *Heterotricha* group; 7 new genera; 11 new species; 103 figures]
- CHANDLER, P.J. & BLASCO-ZUMETA, J. 2001: The fungus gnats (Diptera, Bolitophilidae, Keroplatidae and Mycetophilidae) of the Monegros region (Zaragoza, Spain) and five other new European species of *Pyratula* EDWARDS and *Sciophila* MEIGEN. - Zapateri Revta. aragon. ent. 9: 1-24. [11 new species: *Macrorrhyncha*, *Pyratula*, *Boletina*, *Sciophila*, *Cordyla*, *Pseudexechia*; 68 figures]
- CHANDLER, P.J. & GATT, P. 2000: Fungus gnats (Diptera: Bolitophilidae, Keroplatidae and Mycetophilidae) from the Maltese islands. - Studia Dipterologica 7: 69-81. [2 new species: *Macrocera*, *Docosia*; 15 figures]
- * CHANDLER P.J. & RIBEIRO, E. 1995: The Sciaroidea (Diptera) (excluding Sciaridae) of the Atlantic Islands (Canary Islands, Madeira and the Azores). - Boletim do Museu Municipal do Funchal (Historia Natural) 3: 1-170. [Bolitophilidae, Keroplatidae, Mycetophilidae; revised data on 75 species; keys to species; 17 new species: *Pyratula*, *Mycomya*, *Boletina*, *Docosia*, *Anatella*, *Rymosia*, *Exechiopsis*, *Trichonta*, *Phronia*, *Mycetophila*; 73 plates of figures]
- + COHER, E.I. 1995 a: Contribution to a revision of the genus *Azana* WALKER, 1856 (Insecta: Diptera: Mycetophilidae: Sciophilinae). - Reichenbachia, St. Mus. Tierk. Dresden, 31: 83-91. [Review and key to 9 species; 3 new species; 3 plates of figures]
- COHER, E.I. 1995 b. A contribution to the study of the genus *Anacileia* (Diptera: Mycetophilidae). - Ent. News 106: 257-262. [2 new species; 7 figures]
- * DZIEDZICKI, H. 1884: Przyczynek do fauny owadów dwuskrzydłych. I. Teil (*Mycothera*, *Mycetophila*, *Staeigeria*). - Pam. fizyogr. 4: 298-324. [many genitalia figs]
- * DZIEDZICKI, H. 1885: Przyczynek do fauny owadów dwuskrzydłych. Rodzaje nowe: *Hertwigia* nov. gen., *Eurycera* nov. gen. i gatunki rodzajów: *Boletina*, *Sciophila*. - Pam. fizyogr. 5 (3): 164-194. [many genitalia figs]
- + DZIEDZICKI, H. 1889: Revue des espèces européennes du genre *Phronia* WINNERTZ avec la description des deux genres nouveaux: *Macrobrachius* et *Megophthalmidia*. - Horae Soc. ent. ross. 23: 404-532. [26 new species; 231 figures]
- + DZIEDZICKI, H. 1910: Zur Monographie der Gattung *Rymosia* WINN. - Horae Soc. ent. ross. 77: 89-104. [15 new species, 115 figures]
- + DZIEDZICKI, H. 1915: Atlas des organes génitaux (Hypopygium) des types de WINNERTZ et des genres de sa collection de Mycetophiles. - Publications de la Société des Sciences de Varsovie 3: 1-16. [Keroplatidae, Mycetophilidae; 335 figures]
- + DZIEDZICKI, H. 1923: Revue des espèces européennes du genre *Anatella* WINNERTZ avec la description des deux genres nouveaux: *Heteropygium* et *Allophallus*. - Discipl. biol. Arch. Soc. scient. Varsoviensis. 1: 1-7. [8 new species; 31 figures]
- EDWARDS, F.W. 1913: Notes on British Mycetophilidae. - Trans. R. ent. Soc. Lond. 1913: 334-382. [Bolitophilidae, Keroplatidae, Mycetophilidae; keys to genera and species; 14 new species: *Bolitophila*, *Platyura*, *Sciophila*, *Empalia*, *Syntemna*, *Boletina*, *Brachyzeza*, *Exechia*, *Mycetophila*; 82 figures]
- EDWARDS, F.W. 1921: Diptera Nematocera from Arran and Loch Etive. - Scott. Nat. 115/116: 49-61, 89-92, 121-125. [5 new species: *Allodia*, *Anatella*, *Sciophila*; 10 figures]
- + EDWARDS, F.W. 1924: Notes on MEIGEN's fungus gnat types. - Encycl. ent. (B) 1: 13-17. [Keroplatidae, Mycetophilidae; revision of all remaining types of MEIGEN]
- * EDWARDS, F.W. 1925 a: British Fungus-Gnats (Diptera, Mycetophilidae). With a revised Generic Classification of the Family. - Trans. Ent. Soc. London 73: 505-670. [A major publication about fungus gnats in Europe; all families; keys to genera and species; 38 new species; 230 figures]

- + EDWARDS, F.W. 1925 b: Notes on the types of Mycetophilidae (Diptera) described by STAEGER and ZETTERSTEDT. - Ent. Tidskr. 45: 160-168. [Bolitophilidae, Keroplatidae, Mycetophilidae; revision of surviving types]
- EDWARDS, F.W. 1928: The Nemotocerous Diptera of Corsica. - Encycl. ent. (B) 4: 157-189. [Bolitophilidae, Diadocidiidae, Keroplatidae, Mycetophilidae; 6 new species: *Macrocera*, *Leia*, *Ectrepesthoneura*, *Exechia*, *Mycetophila*; 10 figures]
- EDWARDS, F.W. 1941: Notes on British fungus-gnats (Dipt., Mycetophilidae). - Entomologist's month. Mag. 77: 21-32, 67-82. [Bolitophilidae, Keroplatidae, Mycetophilidae; 2 new genera: *Coelophthinia*, *Grzegorzekia*; 18 new species: *Bolitophila*, *Macrocera*, *Mycomyia*, *Neuratelia*, *Boletina*, *Docosia*, *Rhymosia*, *Mycetophila*, *Sceptonia*; 9 plates of figures]
- + ENDERLEIN, G. 1936: 4. Familie: Pilzmücken, Mycetophilidae, pp. 10-16. In BROHMER, P., EHRMANN, P. & ULMER, G. (eds.): Die Tierwelt Mitteleuropas. - Band VI, Leipzig. [all families; key to genera; 6 figures]
- GAGNÉ, R.J. 1974: A redescription of BECKER's *Phronia* from the Canary Islands (Diptera: Mycetophilidae). - Proc. Ent. Soc. Washington 76 (4): 452-454. [4 figures]
- + GAGNÉ, R.J. 1975: A revision of the Nearctic species of the genus *Phronia* (Diptera: Mycetophilidae). - Trans. Amer. Ent. Soc. 101: 227-318. [Key to 49 Nearctic species, 33 of which are known also from Europe; maps about distribution in Nearctic; 13 new species; 131 genital figures]
- * GAGNÉ, R.J. 1981: A Monograph of *Trichonta* with a Model for the Distribution of Holarctic Mycetophilidae (Diptera). - Techn. Bull. U.S. Dept. Agric. 1638: 1-64. [Key to 67 Holarctic species, 34 new species; 187 genital figures]
- + HACKMAN, W. 1970: New species of the genus *Phronia* WINNERTZ (Diptera, Mycetophilidae) from Eastern Fennoscandia and notes on the synonymies in this genus. - Notulae Entomologicae 50: 41-60. [10 new species; 82 figures]
- + HACKMAN, W. 1971: Three new species of the *Allodia lugens* group from Northern Europe (Dipt., Mycetophilidae). - Ann. Ent. Fenn. 37: 3-7. [19 figures]
- HACKMAN, W. 1972: *Phronia matilei* n. sp., a new fungus gnat from caves in Switzerland (Diptera, Mycetophilidae). - Notulae Entomologicae 52: 39-40. [4 figures]
- HUTSON, A.M. 1978: An undescribed African species of *Leia* (Diptera, Mycetophilidae) infesting root-ginger in London. - Entomologist's month. Mag. 118: 121-124 [3 figures]
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[Detailed morphology and terminology; keys to subfamilies and selected genera with species of the world; 8 new genera and 52 new species worldwide; 990 figures in the morphological and systematic chapters]

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Literaturbesprechung

MUNK, K. (Hrsg.) 2002: Grundstudium Biologie. Zoologie. - Spektrum Akademischer Verlag, Heidelberg-Berlin.

Seit vielen Jahren sind die "klassischen" Fächer Botanik, Zoologie, Mikrobiologie und Genetik als Prüfungsfächer im Grundstudium der Biologie etabliert. Meist ist es schwierig, innerhalb der ersten vier Semester des Grundstudiums den umfangreichen Stoff aus Biochemie, Zellbiologie, Ökologie und Evolution so zu vermitteln, dass ein Verständnis für biologische Zusammenhänge und Prinzipien entwickelt werden kann. Die Autoren des "Grundstudiums Biologie" haben versucht, die Stofffülle auf ein überschaubares (aber notwendiges) Basiswissen zu reduzieren und durch eine fächerübergreifende, vergleichende Darstellung und viele Verweise Querverbindungen zwischen den einzelnen Teilbereichen herzustellen. Die 5 Bände sollten so die Basisinhalte der Biologie vermitteln. Effektives Arbeiten und Prüfungsvorbereitung wird durch folgende "Features" vermittelt: Jedes Kapitel beginnt mit einer kurzen Zusammenfassung (Textüberblick); wesentliche Punkte sind in der Randleiste herausgearbeitet, die auch als Repetitorium dient. Am Ende eines Kapitels kann man sein Wissen anhand der Prüfungsfragen (samt ausführlichen Antworten) überprüfen.

Fünfzehn Kapitel bestreiten den Zoologie-Band: Das System der Tiere, Fortpflanzung und Geschlechtsbestimmung, Entwicklung, Nervengewebe und -systeme, Sinneszellen und Sinnesorgane, Höhere Verarbeitungsprozesse, Gewebe und Bewegungsapparat, Hormone und endokrine Systeme, Verhalten, Ernährung und Verdauung, Blut, Blutgefäß- und lymphatisches System, Immunologie, Temperaturregelung und Atmung, Wasserhaushalt, Ionen- und Osmoregulation, Exkretion sowie Parasitologie.

Das Buch kann (und will wahrscheinlich auch nicht) während des Studiums nicht die einschlägigen Standardwerke der Zoologie ersetzen. Es ist im wesentlichen für die Prüfungsvorbereitung und/oder das Nacharbeiten des Stoffes gedacht, wobei es sich auch für den Studienanfänger durchaus lohnt, dieses Buch rechtzeitig zur Hand zu nehmen. Eine empfehlenswerte, kompakte und übersichtliche Darstellung des umfangreichen Stoffes.

R. GERSTMEIER

STORCH, V., WELSCH, U. 2002: Kükenthals Leitfaden für das Zoologische Praktikum. - Spektrum Akademischer Verlag, Heidelberg-Berlin. 24. neu bearbeitete Auflage, 496 S.

Seit über einhundert Jahren wird der "Kükenthal" in der zoologischen Ausbildung von Studenten der Biologie, Veterinärmedizin, Agrarwissenschaften und verwandter Fächer eingesetzt. Mit der neu bearbeiteten 24. Auflage zeigt das Werk eine erneute Modernisierung ohne dabei das bewährte Grundkonzept aufzugeben. Verschiedene Kurse wurden gestrichen oder ersetzt (z.T. bereits schon in der 23. Auflage durchgeführt), zum Beispiel der Ersatz des Kurses von *Blatta orientalis* durch *Periplaneta americana*. Hinzugefügt wurde ein Kurs über das Neunauge (*Lampetra*), der allerdings überwiegend auf histologischen Dauerpräparaten basiert, so dass sich eine Entnahme aus der Natur - die eigentlich nicht zu verantworten wäre - erübrigt. Weitere Änderungen betreffen *Brachionus plicatilis*, *Loligo vulgaris* und *Xenopus laevis* sowie Histologie und mikroskopische Anatomie von *Rattus norvegicus*. Ein Textteil wurde durch Larven ergänzt, die leicht zu beschaffen sind und vielfach lebend studiert werden können. Erwähnenswert sind außerdem die Präparation von Vogelherz und Säugerauge, die auch an Schulen vorgenommen werden kann. Etwa die Hälfte der Abbildungen wurde durch ansprechendere ersetzt, zahlreiche Textpassagen wurden sprachlich überarbeitet. Hier wäre anzumerken, dass zwar die Abbildung der Mundwerkzeuge der Schabe plastischer und damit anschaulicher wirkt, das "altbekannte" Schema der orthopteroiden Mundwerkzeuge jedoch irgendwie vermisst wird.

Der "Leitfaden" wird weiterhin das Standardwerk für das zoologische Praktikum bleiben und gleichzeitig auch als zoologisches Nachschlagewerk Verwendung finden.

R. GERSTMEIER

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