

Contributions to the knowledge of the Braconidae of Finland (Hymenoptera)

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Data on 75 Finnish species of Braconidae are given: Doryctinae 2, Braconinae 2, Gnamptodontinae 1, Blacinae 1, Euphorinae 1, Agathidinae 5, Macrocentrinae 11 and Microgastrinae 52 species. Of these 31 are new to the Finnish fauna: *Dendrosoter protuberans* (Nees), *Clinocentrus arcticus* Hellén, *Gnamptodon decoris* (Förster), *Coeloides (Coeloidina) filiformis* Ratzeburg, *C. (Syntomomelus) forsteri* Haeselbarth, *Macrocentrus blandus* Eady & Clark, *M. equalis* Lyle, *M. gibber* Eady & Clark, *M. pallipes* (Nees), *M. nidulator* (Nees), *M. nitidus* (Wesmael), *M. thoracicus* (Nees), *Agathis glabricula* Thomson, *A. malvacearum* Latreille, *A. tibialis* Nees, *Bassus claussthalianus* (Ratzeburg), *B. rufipes* Nees, *Microplitis marshallii* Kokujev in Marshall, *M. varipes* (Ruthe), *M. viduus* (Ruthe), *Microgaster acilius* Nixon, *M. alebion* Nixon, *Paroplitis wesmaeli* (Ruthe), *Diolcogaster flavipes* (Haliday), *D. minuta* (Reinhard), *D. scotica* (Marshall), *Protapanteles mandanis* (Nixon), *Glyptapanteles aliphera* (Nixon), *G. porthetriae* (Muesebeck), *Cotesia lineola* (Curtis), *C. salebrosa* (Marshall) and *Dolichogenidea lacteicolor* (Viereck). For the others new provincial or host records are presented. *Bassus claussthalianus* (Ratzeburg), *B. rufipes* (Nees), *Microplitis flavipalpis* (Brullé) and *Diolcogaster flavipes* (Haliday) are new combinations.

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1. Introduction

The Braconidae is the second largest family (after the Ichneumonidae) in the Hymenoptera, and one of the largest animal families, containing at least 40 000 species, about as many as all the vertebrate species combined (Van Achterberg 1988). Only about 800 species are known from Finland.

The Hymenoptera Parasitica is the only group of insects for which a modern check list of the Finnish fauna has not been published. A check

list of the Braconidae of Eastern Fennoscandia is in preparation and will be published in collaboration with Dr. V. I. Tobias (St. Petersburg).

This article deals with 75 species from Finland. 31 species are reported as new to the Finnish fauna; for the others new provincial or host records are given. Of the 75 species 71 are parasites of Lepidoptera (Microgastrinae 52, Macrocentrinae 11, Agathidinae 5, Doryctinae 1, Euphorinae 1 and Gnamptodontinae 1), 1 (Blacinae) of flies (Diptera) and 3 (Braconinae 2, Doryctinae 1) of Coleoptera.

2. Material

The major part of the Braconidae material mentioned is in the Department of Agricultural and Forest Zoology, University of Helsinki (abbreviated to DAFZ), recently determined mainly by Dr. J. Papp (Budapest). Many specimens were reared from Lepidoptera by E. O. and O. Peltonen. Some specimens have been determined by Dr. V. I. Tobias (Leningrad), Mr. M. Viitasaari, Dr. Yang Zhongqi and myself. A survey of the Braconidae collection of the Zoological Museum, University of Helsinki (MZH) has produced some, mainly faunistic, new data. The host names of Lepidoptera are according to Varis & al. 1987. Abbreviations of frequently mentioned collectors and determinators are as follows: AN = A. Nordman, AS = A. Saarinen, EK = E. Kangas, EP = E. O. Peltonen, ET = E. Thuneberg, EV = E. Valkeila, FW = F. Woldstedt, GN = G. E. J. Nixon, HL = Håkan Lindberg, JK = J. Karvonen, JP = J. Papp, JPe = J. Perkiömäki, LE = L. v. Essen, MK = M. Koponen, MV = M. Viitasaari, OH = O. Heikinheimo, OP = O. Peltonen, RFo = R. Forsius, RFr = R. Frey, VK = V. J. Karvonen, VS = V. Saarinen, VT = V. I. Tobias, WH = W. Hellén, YZ = Yang Zhongqi and ÅN = Å. Nordström.

3. Species

Subfamily Doryctinae

Dendrosoter protuberans (Nees, 1834)

Bracon protuberans Nees von Esenbeck, 1834:121.

Dendrosoter protuberans: Wesmael 1838:138, Papp 1961:444, Shenefelt & Marsh, 1976, Tobias et al. 1986:39.

Material: 2 ♂♂ from *N*: Helsinki (668:38), 17.7.1976 and 11.7.1979, 2 ♂♂ from Tuusula (669:38), 6.8.1975 (MK leg. and YZ det., DAFZ).

New to the Finnish fauna. It has previously been reported from Sweden, England and France to Turkey and the Central Asian region of the USSR (Shenefelt & Marsh 1976). It is a parasite of bark beetles (Coleoptera, Scolytidae) (Shenefelt & Marsh 1976).

Subfamily Braconinae

Clinocentrus arcticus Hellén, 1927

Clinocentrus arcticus Hellén, 1927:42. – Hellén 1940:26, Shenefelt 1975:1188, Tobias et al. 1986:72, Koponen & Tobias 1989:23.

Material: 1 ♀ from *Le*: Kilpisjärvi in 7.7.1964 by VK (VK det., DAFZ).

This species was reported from Murmansk obl. of USSR by Hellén (1927). It is new to the Finnish fauna and known also from Mongolia (Tobias et al. 1986).

The species of *Clinocentrus* are parasites of Lepidoptera (Shenefelt 1975).

Coeloides (Coeloidina) filiformis Ratzeburg, 1852

Coeloides filiformis Ratzeburg, 1852:41. – Haeselbarth 1967:36 (*melanotus*-group), Shenefelt 1978:1738, Tobias et al. 1986:98.

Material: 1 ♂ from Finland, *Al*: Sund (670:11) in 28.6.1983 from logs of *Fraxinus* (I. Mannerkoski leg., MK det., DAFZ).

New to the Finnish fauna. Previously recorded, for example, from Sweden, France, Germany, Poland, Czechoslovakia, Austria, Hungary, Romania, Yugoslavia, USSR and Egypt (Shenefelt 1978, Tobias et al. 1986).

It is a parasite, mainly of bark beetles (Coleoptera, Scolytidae) living in *Fraxinus* (Shenefelt 1978).

According to Mason (1978) the *melanotus*-group of Haeselbarth (1967) belongs to the subgenus *Coeloidina* Viereck, 1921.

Coeloides (Syntomomelus) forsteri Haeselbarth, 1967

Coeloides forsteri Haeselbarth, 1967:49 (*bostrichorum*-group), Shenefelt 1978:1739.

Coeloides forsteri: Tobias et al. 1986:98 (unjustified emendation).

Material: 1 ♂ from *Ta*: Pohjois-Pirkkala (T. Grönblom leg., MK det., DAFZ).

New to the Finnish fauna. Previously reported from France, Germany, Austria, Czechoslovakia and Caucasus (Shenefelt 1978, Tobias et al. 1986).

It is a parasite of *Pissodes* species (Coleoptera, Curculionidae) (Haeselbarth 1967).

According to Mason (1978) species of the *bostrichorum*-group of Haeselbarth (1967) belong to the subgenus *Syntomomelus* Kokujev, 1902.

Subfamily Gnamptodontinae

Gnamptodon decoris (Förster, 1862)

Mesotages decoris Förster, 1862:258.

Gnamptodon decoris: Van Achterberg 1983:31.

Material: Four specimens have been determined (by MK) from Finland, *Al*: Finström (679:10), 7.7.1984, 1 ♀; *N*: Nurmijärvi (671:37), 18.6.1989 1 ♀, (671:38), 7.6.1989 1 ♀ and 20.6.1989 1 ♀ (MK leg., DAFZ).

New to the Finnish fauna. Previously known from Britain, The Netherlands, West Germany, Austria, Hungary, Italy, Bulgaria and Greece (Van Achterberg 1983).

The hosts of this species are Nepticulidae (Lepidoptera) in herbs and shrubs (Van Achterberg 1983).

The genus name *Gnamptodon* Haliday, 1837 is an incorrect subsequent spelling of *Gnamptodon* Haliday, 1833 (Opinion 1424).

Subfamily Blacinae

Blacus (Blacus) interstitialis Ruthe, 1861

Blacus interstitialis Ruthe, 1861:150. – Hellén 1946:137, Haeselbarth 1973:135-136.

Blacus (Blacus) interstitialis: Van Achterberg 1988:68.

Syn. *Blacus oscinellae* Fischer, 1963:206-208 (Haeselbarth 1973).

Material: In MZH there are two specimens of *B. interstitialis* from Finland, *N*: Pernå (=Pernaja) (ÅN leg.) determined by Haeselbarth.

B. interstitialis was reported from Finland by Hellén in 1946. Later he (Hellén 1958a) synonymized it with *B. exilis* (Nees). Subsequently *B. interstitialis* and *B. exilis* have been treated as two different species (Haeselbarth 1973, Van Achterberg 1988).

This is a parasite of Chloropidae (Diptera) or perhaps other hosts in Graminae (Van Achterberg 1988). It has been reared from *Oscinella frit*

(Linnaeus, 1758) (Fischer 1963, Haeselbarth 1973).

Subfamily Euphorinae

Meteorus cinctellus (Spinola, 1808)

Bracon cinctellus Spinola, 1808:135.

Perilitus cinctellus: Nees von Esenbeck 1834:1334:40.

Meteorus cinctellus: Haliday 1835:31. – Krogerus: 1927:47, Hellén 1940:27, Shenefelt 1969:59, Huddleston 1980:25, Tobias et al. 1986:187.

Material: In MZH there is a specimen from Finland, *N*: Espoo, reared from a cocoon of *Orgyia antiqua* (Linnaeus) by AS 1945 (det. Huddleston).

This species was reported from Terijoki, Kuokkala (now Repino in Leningrad obl. of USSR) by Krogerus (1927). Huddleston (1980) mentioned it from Finland without detailed information.

Subfamily Agathidinae

Agathis glabricula Thomson, 1895

Agathis glabricula Thomson, 1895:2228. – Krogerus 1927:47, Hellén 1938:110, Hellén 1940:26, Shenefelt 1970:335, Nixon 1986:209.

Material: In MZH there are 7 ♂♂ specimens from Finland determined by GN in 1984; *Ab*: Korpo 28.6.1950 1 ♂ (A. Wegelius), Nystad (=Uusikaupunki) 2 ♂♂ (WH); *N*: Borgå (=Porvoo), Seitlax 1 ♂ (AN), Tvärminne, Henriksberg 1 ♂ (AN); *St*: Reposaari 24.7.1950 2 ♂♂ (V. Lauro leg.).

This species was reported from Kuolemajärvi and Terijoki (now in Leningrad obl. of USSR) by Krogerus (1927) and Hellén (1938) but cancelled by Hellén (1957b).

New to the Finnish fauna. It is a parasite of *Coleophora trochilella* (Duponchel, 1843) = *troglydytella* auct. (Lepidoptera, Coleophoridae) (Nixon 1986, Varis & al. 1987).

Agathis malvacearum Latreille, 1805

Agathis malvacearum Latreille, 1805:175. – Shenefelt 1970:342, Tobias et al. 1986:283, Nixon 1986:202.

Syn. *Agathis simulatrix* Kokujev, 1895 (Tobias 1963).

Syn. *Agathis glabricollis* Telenga, 1955 (Tobias 1963).

Material: In DAFZ there is 1 ♂ from Finland, *Sa*: Valkeala (677:48), reared from *Coleophora graminicolella* Wocke (= *silenella* auct.) by EP in 1978 (det. JP 1984 as *A. glabricollis*).

Frey (1944) reported *Agathis similator* (without name of author) from Finland. This may be an incorrect spelling of *A. simulatrix*.

Agathis tibialis Nees, 1914

Agathis tibialis Nees von Esenbeck, 1914:194, Shenefelt 1970:360, Nixon 1986:201.

Material: In MZH there are specimens determined by Nixon in 1984 as *A. tibialis* from Finland, provinces *Al* (Finström, Kumlinge), *N* (Huopalahti, Liljendal, Porvoo), *St* (Reposaaari, Yyteri), *Ta* (Hattula), *Oa* (Solf) and *Sb* (Kuopio).

New to the Finnish fauna. A parasite of Gelechiidae (Lepidoptera) (Nixon 1986).

Treated as variety or synonym of *A. malvacearum* by Tobias (1963, Tobias et al. 1986).

Bassus clausthalianus (Ratzeburg, 1844), n. comb.

Ichneumon (Microdus) clausthalianus Ratzeburg, 1844:25. *Microdus clausthalianus*: Krogerus 1927:47, Hellén 1940:27, Nixon 1986:224, Tobias et al. 1986:288. *Agathis clausthaliana*: Shenefelt 1970:326.

Material: In MZH there are specimens from Finland and USSR (Leningrad obl. and Karelia) determined by GN in 1984; Finland, *Al*: Finström 1 ♂ (WH); *Ab*: Karislojo (=Karjalohja) 2 ♂♂ (RFo), Lojo (=Lohja) 1 ♂ (RFR), 1 ♂ (P. H. Lindberg), Pargas (=Parainen) 1 ♂ (Reuter); *N*: Huopalahti, Munkkiniemi 15.7.1945 1 ♂ (AS), Pernå (=Pernaja) 1 ♂ (ÅN), Tvärminne 1 ♂ (HL), 1 ♂ (E. Lindqvist); *Ta*: Hartola 1 ♂ (S. Saarinen); Kuopio 1 ♂ (Levander); *Kb*: Ilomants (=Ilomantsi) 1 ♂ (FW); *Ob*: Karlö (=Hailuoto) 1 ♂ (RFR leg.). – USSR, Leningrad obl.: St. Johannes (now Sovetski) 29.7.1913 1 ♂ (F. Lönnfors) and Karelia: Impilaks (=Impilahti) 1 ♂ (FW).

This species was reported from Terijoki, Kuokkala (now in Leningrad oblast of the USSR) by Krogerus (1927) but cancelled by Hellén (1957b).

New to the Finnish fauna. It is a parasite of *Epiblema scutulana* (Denis & Schiffermüller, 1775) (Nixon 1986).

Sharkley (1985) placed *Microdus* in synonymy with *Bassus*.

Bassus rufipes (Nees, 1814), n. comb.

Microdus rufipes Nees von Esenbeck, 1814:189. – Tobias et al. 1986:286, Nixon 1986:218. *Braunsia rufipes*: Shenefelt 1970:375-376.

Material: In DAFZ there are 2 ♀♀ from Finland, *N*: Inkoo (665:32), reared from Tortricidae on *Quercus* by MK in 1976 (det. MK).

New to the Finnish fauna. Known from Sweden and Britain throughout Europe to Siberia (Nixon 1986, Tobias et al. 1986).

Subfamily Macrocentrinae

The previous reports on *Macrocentrus* species from Finland (e.g. Hellén 1938, 1958) were made before the revision of the genus by Eady & Clark 1964 and Van Achterberg & Haeselbarth 1983. All older reports have to be checked, since there has been more or less confusion. Most specimens of *Macrocentrus* in DAFZ have been recently determined (by MK, JP and MV). All are parasites of Lepidoptera larvae.

Macrocentrus blandus Eady & Clark, 1964

Macrocentrus blandus Eady & Clark, 1964:118, Shenefelt 1969:147. *Macrocentrus (Amicroplus) blandus*: Tobias et al. 1986:250.

Material: Specimens from Finland in DAFZ: *Ab*: Nystad (= Uusikaupunki) 2 ♂♂ (WH); *N*: Helsinge (= Helsinki rural mun., currently Vantaa) 1 ♂ (WH), Helsinki 26.6.1968 1 ♂ (VK), Huopalahti 21.8.1940 1 ♂ (AS), Vantaa (668:39) 22.8.1978 1 ♀ (MK); *Sa*: Mikkeli mlk. (= Mikkeli rural mun.) (683:50) 26.9.1976 1 ♀ and Ristiina (682:50) 23.6.1984 1 ♂ (MK leg.).

Reared from *Hydraecia micacea* (Esper) by A. Saarinen.

New to the Finnish fauna.

At least some of the specimens reported as *M. infirmus* (Nees) by Hellén (1938, 1958a) belong to this species.

Macrocentrus collaris (Spinola, 1808)

Bracon collaris Spinola, 1808:140. *Macrocentrus collaris*: Eady & Clark 1964:120, Shenefelt 1969:149-150. *Amicroplus collaris*: Förster 1862:256. *Macrocentrus (Amicroplus) collaris*: Tobias et al. 1986:253.

Material: In DAFZ there are, for example, 1 ♂ and 1 ♀ from *N*: Helsinki, reared from *Noctua pronuba* (Linnaeus) by EK in 1932.

Previous reports from Finland (Hellén 1938, 1953, 1958a) concerning this species are presumably mainly correct.

Macrocentrus equalis Lyle, 1914

Macrocentrus equalis Lyle, 1914:261. – Hellén 1946:132, Eady & Clark 1964:120, Shenefelt 1969:152.

Macrocentrus (Amicroplus) equalis: Tobias et al. 1986:253.

Material: In DAFZ there are 3 ♀♀ specimens from Finland, *N*: Helsinki rural mun. (currently Vantaa), 19.6.1959, reared from *Orthotaenia undulana* (Denis & Schiffermüller) by EP.

This species was reported from Finland by Hellén in 1946 but later (1958a) cancelled.

Reintroduced to the Finnish fauna.

Macrocentrus gibber Eady & Clark, 1964

Macrocentrus gibber Eady & Clark, 1964:114, Shenefelt 1969:154.

Macrocentrus (Amicroplus) gibber: Tobias et al. 1986:253.

Material: In DAFZ there are specimens from Finland and USSR, Leningrad obl. Finland, *Al*: Eckerö, 1.9.1965 2 ♂♂ (*J*. Karvonen) *Ab*: Vihti, 4.8.1954 1 ♂ (VK); *N*: Bromarv, Täcktom, 21.8.1968 2 ♂♂ (VK), Helsinki, 8.1965 2 ♂♂ (*I*. Jalas), Helsingin pit. (= Helsinki rural. mun.), 25.9.1965 1 ♂ (*E*. Karvonen), Nurmijärvi (671:37), 22.8.1968 2 ♂♂ (MK), Tvärminne, 8.1979 1 ♂ (VK); *Ka*: Virolahti, 6.-12.8.1972 1 ♂ (VK); *Sb*: Varkaus, 5.8.1962 1 ♂ (*E*. Pulliainen). USSR: Koivisto, Vasikkasaari (now Teljatši ostrov), 8.7.1979 1 ♂ (EK leg.).

New to the Finnish fauna.

Macrocentrus infirmus (Nees, 1834)

Rogas infirmus Nees von Esenbeck, 1834:203.

Macrocentrus infirmus: Eady & Clark 1964:118, Shenefelt 1969:156.

Macrocentrus (Amicroplus) infirmus: Tobias et al. 1986:250.

Material: To this species belong at least the following specimens in DAFZ from Finland, *Ab*: Nystad (=Uusikaupunki) 1 ♂ (WH); *N*: Helsinki (668:38) 25.8.1975 1 ♂ and (668:39) 15.8.1978 1 ♂ (MK), Kirkkonummi 7.-27.8.1961 3 ♂♂ (VK); *Sa*: Mikkeli rural mun. (683:50) 3.8.1983 1 ♂ (MK); *Tb*: Rautalampi (694:49) 19.7.1983 (during summer excursion of Entomological Society of Finland) (MK leg.).

At least some of the specimens reported as this species by Hellén (1938, 1958a) belong to *Macrocentrus blandus* (Eady & Clark 1964).

Macrocentrus linearis (Nees, 1812)

Bracon linearis Nees von Esenbeck, 1812:13.

Macrocentrus linearis: Eady & Clark 1964:121, Shenefelt 1969:159.

Macrocentrus (Amicroplus) linearis: Tobias et al. 1986:257. Syn. *Ichneumon abdominalis* Fabricius, 1893 (preocc.) (Eady & Clark 1964).

Material: In DAFZ there are Finnish specimens at least from provinces *Ab* (Lohja, Uusikaupunki, Vihti), *N* (Espoo, Helsinki), *Ta* (Kangasala) and *Sa* (Mäntyharju, Ristiina).

Reported from Finland by Hellén (1938) and as *M. abdominalis* by Hellén (1958a), but partly confused at least with *M. pallipes*.

Macrocentrus nidulator (Nees, 1834)

Rogas nidulator Nees von Esenbeck, 1834:204.

Macrocentrus nidulator: Eady & Clark 1964:111, Shenefelt 1969:164, Van Achterberg & Haeselbarth 1983:41, 45.

Macrocentrus (Macrocentrus) nidulator Tobias et al. 1986:260.

Material: In DAFZ there are at least the following 8 specimens (3 ♀♀, 5 ♂♂) from Finland: *Ab*: Karjalohja, Pipola 26.7.1969 1 ♀ (JPe), Pemiö (667:28) 6.8.1982 1 ♀ (MK), Vihti, Siikajärvi 27.7.1969 1 ♂ (VK); *N*: Helsinki, Suomenlinna 7.8.1967 1 ♂ (*E*. Karvonen), Vantaa (668:39) 8.8.1979 1 ♀ (MK); *Ta*: Kalvola 19.8.1958 1 ♂ (*E*. A. Hellman), Hämeenlinna (676:36) 14.8.1977 1 ♂ (EV); *Sa*: Savitaipale (679:53) 14.8.1981 1 ♂ (MK leg.).

New to the Finnish fauna.

Macrocentrus nitidus (Wesmael, 1835)

Rogas nitidus Wesmael, 1835:175.

Macrocentrus nitidus: Eady & Clark 1964:111, Shenefelt 1969:165, Van Achterberg & Haeselbarth 1983:42, 50.

Macrocentrus (Macrocentrus) nitidus: Tobias et al. 1986:262.

Material: In DAFZ there are at least the following 6 (♂♂) specimens from Finland, *Al*: Eckerö 1.9.1965 1 ♂ (VK), Mariehamn 29.7.1969 1 ♂ (*I*. Jalas); *N*: Helsinki 7.1973 1 ♂ (VK), Nurmijärvi (671:37) 1 ♂ (MK); *Sa*: Mikkeli rural mun. (683:50) 27.6.1975 1 ♂ (MK); *Kl*: Parikkala 1 ♂ (WH, misidentified as *M. marginator* Nees).

Reported from Finland as early as 1895 by Reuter, but cancelled by Hellén (1946, 1958a). Now it is reported again for the Finnish fauna.

Macrocentrus pallipes (Nees, 1812)

Bracon pallipes Nees von Esenbeck, 1812:14.

Macrocentrus pallipes: Eady & Clark 1964:121, Shenefelt 1969:166.

Macrocentrus (Amicroplus) pallipes: Tobias et al. 1986:253.

Material: In DAFZ there are at least the following specimens from Finland: *Ab*: Perniö (667:28) 6.8.1982 1 ♂ (MK), Vihti, Siikajärvi 20.7.1983 3 ♂♂ (VK); *N*: Helsinki (667:38) 22.8.1982 1 ♂, (668:38) 25.6.1981 1 ♂ (MK), Kirkkonummi, Siikajärvi 26.7.1969 1 ♂ (VK), Vantaa (668:39) 16.8.1978 1 ♂ (MK); *Sr*: Yläne (676:25) 8.7.1982 (during summer excursion of Entomological Society of Finland) 3 ♂♂ (reared from Tortricidae larvae on *Salix* by EP); *Ta*: Luopioinen (680:38) 30.7.1981 1 ♂ (EP), Pälkäne 6.-7.7.1959 2 ♂♂ (EP leg.).

This species was reported from Finland by Hellén (1938) but later cancelled (Hellén 1958a).

Reared from *Olethreutes lacunanus* (Denis & Schiffermüller) by EP.

New to the Finnish fauna.

Macrocentrus resinellae (Linnaeus, 1758)

Ichneumon resinellae Linnaeus, 1758:565.

Macrocentrus resinellae: Eady & Clark 1964:124, Shenefelt 1969:169.

Macrocentrus (Amicroplus) resinellae: Tobias et al. 1986:257.

Syn. *Macrocentrus punctifrons* Thomson, 1895 (Eady & Clark 1964).

Material: In DAFZ there are Finnish specimens at least from provinces *Ab* (Naantali, Suomensjärvi), *N* (Bromarv, Helsinki, Nurmijärvi, Tvärminne, Vantaa), *Ta* (Hattula, Pälkäne) and *Ob* (Ii).

Reported from Finland by Hellén (1938, 1958a), but at least partly confused with other species.

Macrocentrus thoracicus (Nees, 1812)

Bracon thoracicus Nees von Esenbeck, 1812:14.

Macrocentrus thoracicus: Eady & Clark 1964:111, Shenefelt 1969:172, Van Achterberg & Haeselbarth 1983:40.

Macrocentrus (Macrocentrus) thoracicus: Tobias et al. 1986:259.

Material: In DAFZ there are at least 20 specimens (2 ♀♀, 18 ♂♂) from Finland; *Al*: Föglö 4.9.1965 3 ♂♂ (JK), Lemland 7.8.1963 1 ♂ (JK); *Ab*: Naantali 23.8.1965 2 ♀♀ 9 ♂♂ (VK); *N*: Helsinki 7.9.1974 2 ♂♂ (MK), Tvärminne 1976 1 ♂ (VK); *Ka*: Virolahti (671:53) 24.8.-6.9.1975 1 ♂ (VK); *Sa*: Mikkeli rural mun. (683:50) 5.7.1977 5 ♂♂ (MK leg.).

New to the Finnish fauna.

Subfamily Microgastrinae

Microplitis decens Tobias, 1964

Microplitis decens Tobias, 1964:213. – Shenefelt 1973:743, Papp 1981:135.

Microgaster decens: Papp 1984a:108. – Tobias et al. 1986:348.

Material: In DAFZ there are specimens (det. JP 1981) at least from the following localities: *N*: Helsinki (668:38), 21.7.1975 1 ♂ MK; *Ta*: Hattula (677:35), 11.7.1976 1 ♀, Lammi (677:39), 8.7.1975 1 ♀, 6.-15.7.1976 1 ♂ 4 ♀♀ (MK); *Sa*: Mikkeli rural mun. (683:50) 24.-25.7.1976 1 ♂ 1 ♀ (MK leg.).

Reported by Papp (1981) from Finland without information about more detailed distribution.

Microplitis eremita Reinhard, 1880

Microplitis eremita Reinhard, 1880:360. – Hellén 1955:112, Nixon 1970:22, Shenefelt 1973:744.

Microgaster eremita: Papp 1984a:112.

Material: New records *Sa*: Mikkeli rural mun. (683:50), 24.8.1975 1 ♀ (MK) and *Tb*: Toivakka, 6.8.1951 1 ♀ (EP leg., det. JP).

Reported by Hellén (1955) from Finland, provinces *Al*, *Ab*, *N*, *St*, *Ta* and *Sb*.

Reared from *Lithophane consocia* (Borkhausen) by EP.

Microplitis flavipalpis (Brullé, 1832), comb. n.

Microgaster flavipalpis Brullé, 1832:386. – Shenefelt 1973:707, Papp 1984a, Tobias et al. 1986:351.

Syn. *Microplitis ruricola* Lyle, 1918 (Papp 1984a). – Nixon 1970:24, Shenefelt 1973:757.

Material: In MZH there are specimens determined by Nixon in 1963 as *Microplitis ruricola* from *Al*: Lemland; *Ab*: Houtskär and *N*: H:fors (=Helsinki) (WH leg.).

Mentioned from Finland by Papp (1984a).

Microplitis lugubris (Ruthe, 1860)

Microgaster lugubris Ruthe, 1860:130. – Papp 1984a:135, Tobias et al. 1986:349.

Microplitis lugubris: Reinhard 1880:359. – Papp 1960:125, Nixon 1970:16, Shenefelt 1973:748.

Syn. *Microgaster (Microplitis) coracina* Thomson, 1895 (Papp 1984a).

Microplitis coracina: Dalla Torre 1898:158, Hellén 1955:114, Shenefelt 1973:742.

Material: In MZH there is also 1 ♂ from *Le*: Saana (RFR leg., det. GN).

Reported by Hellén (1955) from Finland, provinces *Al* and *Sa*.

Microplitis mandibularis Thomson, 1895

Microgaster (Microplitis) mandibularis Thomson, 1895:2251.

Microplitis mandibularis: Dalla Torre 1898:159, Hellén 1938:109, Hellén 1940:27, Hellén 1955:112, Nixon 1970:15, Shenefelt 1973:749.

Microgaster mandibularis: Papp 1984a:135, Tobias et al. 1986:349.

Material: Reared from larva of *Lasionycta proxima* (Hübner) by OP in *Sa*: Mäntyharju (681:49) in 24.5.1973 (DAFZ, det. JP 1981).

Reported by Hellén (1938, 1955) from Finland, provinces *Al*, *Ab*, *N*, *St*, *Ta*, *Sa* and *Kl*.

Microplitis marshallii Kokujev in Marshall, 1897

Microplitis marshallii Kokujev in Marshall, 1897:183. – Shenefelt 1973:750.

Microgaster marshallii: Papp 1984a:106, Tobias et al. 1986:348.

Material: In DAFZ there is 1 ♀ from Finland, *N*: Nurmijärvi (671:37), 17.5.1975 (MK leg., det. by JP 1981).

New to the Finnish fauna. Previously known from Hungary, Romania, Turkey and USSR (Armenia, Georgia, Azerbaidzhan, Stavropol) (Papp 1984a, Tobias et al. 1986).

Microplitis ratzeburgi (Ruthe, 1858)

Microgaster spinolae Ratzeburg, 1852:49, not Nees von Esenbeck.

Microgaster ratzeburgi Ruthe, 1858:6, replacement name. – Papp 1984a:99, Tobias et al. 1986:350.

Microplitis ratzeburgi: Hellén 1955:111 (as synonym of *M. fumipennis*), Nixon 1970:25, Shenefelt 1973:756-757.

Material: The following specimens from Finland are recorded for the first time: *Ta*: Lahti (Heinänen, MZH), Lammi 1 ♂ (EP, DAFZ), Ylöjärvi (S. Saarinen, MZH); *Ok*: Suomussalmi (Sorsakoski leg., coll. MZH).

Hellén (1955) treated (incorrectly?) *M. ratzeburgi* as synonym of *M. fumipennis* (Ratzeburg).

Reared from *Furcula bifida* (Brahm) by EP in 1960.

Microplitis sofron Nixon, 1970

Microplitis sofron Nixon, 1970:21. – Shenefelt 1973:759. *Microgaster sofron*: Papp 1984a: 108, 137, Tobias et al. 1986:349 (as synonym of *M. stigmatica*).

Syn. *Microgaster stigmatica* Ratzeburg, sensu Tobias 1976 (Papp 1984a).

Material: In MZH there are specimens determined by Nixon in 1962 as *M. sofron* from *Al*: Jomala (WH); *Ab*: Nagu (=Nauvo) (WH), Nystad (=Uusikaupunki) (WH); *N*: Hangö (=Hanko) (WH); *Tb*: Keuru (=Keuruu) (WH leg.). Also there is a specimen from Antrea (now Kamennogorsk in Leningrad obl. of USSR) (ET leg.). In DAFZ there is 1 ♂ of *A. sofron* from *N*: Nurmijärvi (671:37), 25.6.1978 (MK leg., det. JP in 1981).

Hellén (1955) reported *M. stigmaticus* from Finnish provinces *Al*, *Ab*, *N*, *Ta*, *Kl* and *Oa*. It is not known whether Hellén determined this species himself, or what were the grounds for his interpretation. Usually he obtained help from Nixon. But Nixon (1970) in his revision of *N. W.* European species of *Microplitis* does not mention *M. stigmatica*.

There is some confusion in the identity of *Microplitis stigmatica* (Ratzeburg, 1844) and the synonymy with *M. sofron*. According to Tobias (1976, Tobias et al. 1986) *M. sofron* is a synonym of *M. stigmatica*. Papp's (1984a) opinion is that they are different species.

Microplitis spectabilis (Haliday, 1834)

Microgaster spectabilis Haliday, 1834:236. – Papp 1984a:136, Tobias et al. 1986a:350.

Microplitis spectabilis: Marshall 1872:106, Hellén 1955:114, Nixon 1970:12, Shenefelt 1973:760-761.

Reported by Hellén (1955) from provinces *N* and *Ta* of Finland.

New province *Kl*: Parikkala (WH leg., MZH, det. GN in 1953).

Reared from *Xanthia citrago* (Linnaeus) by EP in *N*: Helsinki in 1959 (DAFZ, det. JP).

Microplitis varipes (Ruthe, 1860)

Microgaster varipes Ruthe, 1860:136. – Papp 1984a:113, Tobias et al. 1986:354.

Microplitis varipes: Reinhard 1880:359, Shenefelt 1973:767-768.

Microplitis variipes: Marshall 1888:502, Papp 1967:203. Syn. (?) *Microgaster stigmatica* Ratzeburg, 1844 (Papp 1984a). See also *Microplitis sofron*.

Material: In DAFZ there are specimens from Finland, *N*: Helsinki (668:38), 17.7.1976 1 ♀, Nurmijärvi (671:37), 21.6.1975 1 ♀ (MK leg.).

New to the Finnish fauna. Known from Germany, France and Yugoslavia throughout USSR to Mongolia (Papp 1984a, Shenefelt 1973).

Microplitis viduus (Ruthe, 1860)

Microgaster viduus Ruthe, 1860:134.

Microplitis viduus: Reinhard 1880:358, Nixon 1970:23.

Microplitis vidua: Shenefelt 1973:768.

Microgaster vidua: Papp 1984a:113, Tobias et al. 1986:351.

Material: In DAFZ there are specimens (det. JP) from Finland, *Al*: Kökar (666:15), 11.6.1976 1 ♀ (MK); *N*: Helsinki, 1959 1 ♂ (EP), (668:38), 22.5.1976 1 ♀, Nurmijärvi (671:37), 26.7.1975 1 ♂, Tuusula (669:38), 3.6.1977 1 ♂ (MK leg.).

Reared from *Cucullia gnaphalii* (Hübner) by EP.

New to the Finnish fauna. Previously known from England and Spain throughout Europe to Central Asia of USSR (Papp 1984a, Tobias et al. 1986).

Microgaster acilius Nixon, 1968

Microgaster acilius Nixon, 1968:53. – Shenefelt 1973:694. *Lissogaster acilius*: Tobias et al. 1986:363.

Material: In DAFZ there is 1 ♂ from Finland, *N*: Vantaa (668:39), 13.8.1977 (MK leg., det. JP).

New to the Finnish fauna. Previously known only from England (Nixon 1968, Tobias et al. 1986).

Microgaster alebion Nixon, 1968

Microgaster alebion Nixon, 1968:60. – Shenefelt 1973:694. *Lissogaster alebion*: Tobias et al. 1986:364.

Material: Specimens from Finland have been determined from the following localities: *N*: Helsinki (EP, MZH), (668:39), 8.9.1978 1 ♂ (MK, DAFZ); *Ta*: Aitolahhti (AS, MZH), Hattula (LE, MZH), Kangasala, 10.7.1938 (AS, MZH), Lammi (677:39), 13.7.1975 1 ♂ (MK, DAFZ); *Sa*: Mäntyharju (Levander, MZH); *Kl*: Parikkala (WH, MZH); *Kb*: Nurmes, 26.6.1939 (S. Saarinen, MZH); *Ob*: Karlö (=Hailuoto) (RFR, MZH) and Kempele (Wuorentaus leg., coll. MZH). In MZH there are also specimens from Soviet Karelia: Hiitola (LE) and Petrozavodsk, 28.5.1943 (T. Helminen leg.).

New to the Finnish fauna. Previously known from England and USSR (Nixon 1968, Tobias et al. 1986).

Microgaster crassicornis Ruthe, 1860

Microgaster crassicornis Ruthe, 1860:49. – Nixon 1968:49, Shenefelt 1973:701, Papp 1981:130.

Lissogaster crassicornis: Tobias et al. 1986:362.

Material: In MZH there are specimens from *N*: Helsinki, 21.6.1945 and Huopalahti, Munkkiniemi, 24.6.1946 (AS leg. and det. GN 1954).

Reported by Nixon (1968) from Finland without more detailed information.

Microgaster curvicrus Thomson, 1895

Microgaster (Microgaster) curvicrus Thomson, 1895:2242. *Microgaster curvicrus*: Nixon 1965:267, Nixon 1968:46, Shenefelt 1973:701, Papp 1981:130.

Lissogaster curvicrus: Tobias et al. 1986:359.

Material: In MZH there are specimens (det. GN) from the following provinces (and localities): *Al* (Eckerö, Jomala, Kökar), *Ab* (Karjalohja, Lohja, Parainen, Ruissalo), *N* (Espoo, Helsinki, Kirkkonummi, Tammisaari, Tvärminne), *St* (Reposaari, Suoniemi), *Ta* (Hattula, Harmoinen, Janakkala, Kangasala, Länsi-Teisko, Orivesi, Ylöjärvi), *Sa* (Rantasalmi, Ristiina), *Kl* (Parikkala), *Oa* (Raippaluoto), *Tb* (Jyväskylä, Laukaa, Saarijärvi), *Sb* (Kuopio, Vehmersalmi) and *Ok* (Kajaani). Also there are specimens from Leningrad obl. and Soviet Karelia.

Reported by Nixon (1968) from Finland without detailed information.

Microgaster erro Nixon, 1968

Microgaster erro Nixon, 1968:47. – Shenefelt 1973:706, Papp 1981:131.

Lissogaster erro: Tobias et al. 1986:359.

Reported by Nixon (1968) from Finland, provinces *Al*, *N* and *Ob*.

New provincial records are *Sa*: Ristiina (682:50), 5.7.1978 1 ♀ and *Sb*: Kuopio (697:53), 23.6.1976 1 ♀ (MK leg., DAFZ, det. JP). In MZH there are also specimens from Soviet Karelia: Semsjärvi (now Semzero) and Sweden: Öland (WH leg.).

Reared from *Depressaria pastinacella* (Duponchel) (= *heracliana* auct.) by EP in Helsinki, 26.5.1973.

Microgaster grandis Thomson, 1895

Microgaster (Microgaster) grandis Thomson, 1895:2242.
Microgaster grandis: Nixon 1968:53, Shenefelt 1973:712.
Lissogaster grandis: Tobias et al. 1986:363.

Material: In DAFZ and MZH there are specimens (det. Papp and Nixon) from provinces (localities) *Al* (Lemland), *N* (Espoo, Helsinki, Munkkiniemi), *Ta* (Hattula, Lammi), *Kl* (Parikkala), *Sb* (Kuopio), *Kb* (Hammaslahti, Polvijärvi) and *Ob* (Liminka). In MZH there are also specimens from Soviet Karelia (Impilahti, Sortavala).

Reported by Nixon (1968) from Finland without more detailed information.

Microgaster hospes Marshall, 1885

Microgaster hospes Marshall, 1885:257. – Nixon 1968:57, Shenefelt 1973:713.
Lissogaster hospes: Koponen & Vikberg 1984:104, Tobias et al. 1986:365.

Reported by Koponen & Vikberg (1984) from Finland, province *Li*.

New provincial records are *Al*: Jomala (M. Hellén); *N*: Helsinki (668:39), 10.8.1975 1 ♂, 25.8.-8.9.1977 2 ♂♂ (MK); *Ta*: Lammi (677:39), 14.7.1976 2 ♀♀, 4.9.1976 1 ♂ (MK); *Sa*: Mikkeli rural mun. (683:50), 15.6.1974 1 ♂ (MK); *Sb*: Kuopio (697:55), 20.6.1976 1 ♀ (MK); *Le*: Kilpisjärvi (AN leg.). In MZH there are also specimens from Soviet Karelia: Semsjärvi (Semzero in Karhumäki) (J. Karpelan), Teru and Paanajärvi (Panzero in Kem) (WH leg.).

Microgaster novicia Marshall, 1885

Microgaster novicius Marshall, 1885:252. – Nixon 1968:53, Shenefelt 1973:719.
Microgaster novicia: Fahringer 1937:357, Hellén 1955:110.
Lissogaster novicia: Tobias et al. 1986:363.

Reported by Hellén (1955) from Finland, *Tb*.

New provincial records are *Ab*: Hiitis (= Hiittinen) 1 (RFR, MZH, det. GN); *Sa*: Hirvensalmi (682:49), 14.8.1976 1 ♂ (MK, DAFZ, det. JP); *Ob*: Kempele 1 (Wuorentaus, MZH, det. GN).

Microgaster polita Marshall, 1885

Microgaster politus Marshall, 1885:260. – Nixon 1968:48, Shenefelt 1973:723.
Microgaster polita: Fahringer 1937:328, Papp 1976:98.
Lissogaster polita: Tobias et al. 1986:355.
Syn. *Microgaster (Lissogaster) carinatus* Bengtsson, 1926:63, not Packard, 1881 (Papp 1976).
Microgaster (Lissogaster) bentgssoni Fahringer, 1937:325, replacement name.
Microgaster (Microgaster) bentgssoni: Hellén 1955:110.

Reported by Hellén (1955) from Finland, province *St*.

New provincial records are *N*: Helsinge (= Helsinki rural mun., currently Vantaa) (WH, MZH), 16.6.1967 1 ♀ (OH, DAFZ), Helsinki, Pihlajasaari (667:38), 31.7.1982 1 ♂ (YZ), Munkkiniemi (AS, MZH); *Ta*: Jämsä (Bergroth, MZH); Mikkeli rural mun. (683:50), 29.7.1979 1 ♂, Ristiina (682:50), 16.7.1982 1 ♂ (MK, DAFZ); *Oa*: Ylihärmä (701:28), 13.7.1980 2 ♂♂ (MK leg., DAFZ). Determined by GN in 1953-1957, JP 1985 and VT 1983).

Microgaster procera Ruthe, 1860

Microgaster procerus Ruthe, 1860:115. – Nixon 1968:45, Shenefelt 1973:724.
Microgaster procera: Papp 1981:133.
Lissogaster procera: Tobias et al. 1986:357.

Material: In MZH there is a specimen from Finland, *Ta*: Kangasala, 21.7.1938 (S. Saarinen) and another from USSR, Leningrad obl.: Tytärsaari (now Bolšoi Tjuters) (I. Hellén leg.), both det. GN in 1965.

Reported by Nixon (1968) from Finland without more detailed information.

Paroplitis wesmaeli (Ruthe, 1860)

Microgaster picipes Wesmael, 1837:38 (not Bouché, 1834).
Microgaster wesmaeli Ruthe, 1860:148, replacement name.
Hypomicrogaster wesmaeli: Nixon 1965:210, Shenefelt 1973:691.
Paroplitis wesmaeli: Mason 1981:71, Tobias et al. 1986:366.

Material: In MZH there are specimens from Finland, *Al*: Kökar (HL); *N*: H:fors (= Helsinki) (O. Nybom); *St*: Suoniemi (VS); *Oa*: Kvevlax (= Koivulahti) (HL) and *Li*: Lemmenjoki (WH leg.), all det. GN in 1957.

New to the Finnish fauna. Previously known from Sweden, England, Belgium, France, Germany to USSR (Lenkoran) (Shenefelt 1973, Tobias et al. 1986).

Rasivalva circumvecta (Lyle, 1918)

Diolcogaster circumvectus Lyle, 1918:105.

Microgaster circumvecta: Fahringer 1937:335.

Protomicroplitis circumvectus: Nixon 1965:256, Shenefelt 1973:776.

Rasivalva circumvecta: Mason 1981:93, Tobias et al. 1986:367.

Material: In MZH there is one specimen from *Tb*: Pihtipudas (AS leg., det. GN 1954).

Reported by Nixon (1965) from Finland.

Diolcogaster flavipes (Haliday, 1834) comb. n.

Microgaster flavipes Haliday, 1834:241. – Papp 1960:121, Shenefelt 1973:707.

Material: In DAFZ there are 3 ♂♂ determined by JP (in 1979) as *Protomicroplitis flavipes* and 5 by MK (in 1989) from Finland, *Sa*: Mikkeli rural mun. (6830:50), 26.8.1978 2 ♂♂, 28.7.1979 3 ♂♂, Ristiina (682:50), 15.8.1976 1 ♂, Valkeala (677:48), 28.7.1977 (during summer excursion of Entomological Society of Finland) 1 ♂ (MK); *Sb*: Joroinen (690:54), 9.8.1982 1 ♂ (YZ leg.).

New to the Finnish fauna. Known from Ireland, England, Germany, Poland, Austria and Yugoslavia (Shenefelt 1973).

Diolcogaster hinzi (Nixon, 1965)

Protomicroplitis hinzi: Nixon 1965:252, Hellén 1966:85, Shenefelt 1973:778.

Diolcogaster hinzi: Tobias et al. 1986:370.

Reported by Nixon (1965) and Hellén (1966) from Finland without details.

Diolcogaster minuta (Reinhard, 1880)

Microgaster minutus Reinhard, 1880:357.

Protomicroplitis minuta: Nixon 1965:250, Shenefelt 1973:780.

Diolcogaster minuta: Tobias et al. 1986:370.

Material: In MZH there is one specimen from Finland, *Tb*: Keuruu, Haapamäki, 1941 (J. Carpelan leg., det. GN 1956).

New to the Finnish fauna. Known from England and Germany to Caucasus and Transbaikalia of USSR (Shenefelt 1973, Tobias et al. 1986).

Diolcogaster scotica (Marshall, 1885)

Microgaster scoticus Marshall, 1885:251.

Protomicroplitis scotica: Nixon 1965:252, Shenefelt 1973:781.

Diolcogaster scotica: Mason 1981:114, Tobias et al. 1986:370.

Material: In DAFZ there are specimens from Finland, *Ta*: Lammi (677:39), 10.7.1975 1 ♀, 9.7.1976 1 ♀ and *Sa*: Mikkeli rural mun. (683:50), 15.6.1975 1 ♀ (MK leg., det. JP).

This Holarctic species is new to the Finnish fauna.

Protapanteles mandanis (Nixon, 1965)

Apanteles mandanis Nixon, 1965:136. – Shenefelt 1972:564, Nixon 1976:718, Papp 1984b:280, Tobias et al. 1986:375.

Protapanteles mandanis: Mason 1981:107, Papp 1988:153.

Material: In DAFZ there are 2 ♂♂ and 1 ♀ from Finland, *Ta*: Janakkala (675:36), reared from *Eustroma reticulatum* (Denis & Schiffermüller) by EP in 1976 (det. JP 1984).

New to the Finnish fauna. Known from Germany and Hungary (Nixon 1965, Papp 1984b).

Glyptapanteles aliphera (Nixon, 1973)

Apanteles aliphera Nixon, 1973:184. – Papp 1983:260, Tobias et al. 1986:380.

Glyptapanteles aliphera: Papp 1988:152.

Material: In DAFZ there is 1 ♀ from Finland, *Ab*: Korppoo, Ävensör (669:19), 20.7.1978 (during summer excursion of Entomological Society of Finland) (MK leg., det. JP 1982).

New to the Finnish fauna. Known from Sweden, England and France throughout Europe to Caucasus of USSR and Israel (Papp 1983, Tobias et al. 1986).

Glyptapanteles lateralis (Haliday, 1834)

Microgaster lateralis Haliday, 1834:248.

Apanteles lateralis: Marshall 1872:105, Wilkinson 1945:121, Hellén 1957a:76, Shenefelt 1972:551, Nixon 1973:176, Papp, 1983:252, Tobias et al. 1986:380.

Sathon lateralis: Mason 1981:107.

Glyptapanteles lateralis: Papp 1988:152.

Material: In MZH there is a specimen also from *Om*: Nykarleby (= Uusikaarlepyy) (RFR leg., det. GN 1975).

Reported by Hellén (1957a) from Finland, province *Ab*.

Glyptapanteles pallipes (Reinhard, 1880)

Apanteles pallipes Reinhard, 1880:366. – Shenefelt 1972:592, Nixon 1973:190, Papp 1983:255, Tobias et al. 1986:377.

Apanteles pallidipes: Marshall 1885:215, Hellén 1955:120.

Glyptapanteles pallipes: Mason 1981:106, Papp 1988:152.

Reported by Hellén (1955) from Finland, province *N*.

New provincial records are from *Ta*: Luopioinen, 2.7.1979 5 ♂♂ 1 ♀ (EP) and *Sa*: Ristiina (682:50), 26.8.1978 1 ♀ (MK leg., DAFZ, det. JP).

Reared from *Diachrysia chrysitis* (Linnaeus) by EP.

Glyptapanteles porthetriae (Muesebeck, 1928)

Apanteles porthetriae Muesebeck, 1928:8. – Shenefelt 1972:606, Nixon 1973:178, Papp 1983:261, Tobias et al. 1986:381.

Glyptapanteles porthetriae: Mason 1981:107, Papp 1988:152.

Material: In DAFZ there is 1 ♀ from Finland, *Ta*: Janakkala (675:37), reared from larva of *Alcis repandatus* (Linnaeus) by EP in 1978.

This holarctic species is new to the Finnish fauna (Shenefelt 1972, Nixon 1973, Papp 1983).

Glyptapanteles vitripennis (Curtis, 1830)

Microgaster vitripennis Curtis, 1830:321.

Apanteles vitripennis: Marshall 1872:105, Hellén 1955:120, Shenefelt 1972:662, Nixon 1973:182, Papp 1983:261, Tobias et al. 1986:381.

Glyptapanteles vitripennis: Mason 1981:107, Papp 1988:152.

Reported by Hellén (1955) from Finland, provinces *Al*, *Tb* and *Li*.

New provincial records are *N*: Helsinki

(668:38), 9.9.1978 1 ♂ (MK), Tuusula (669:38), 7.6.1978 1 ♀ (MK) and *Ta*: Janakkala (675:37), 1978 1 ♂ (EP). All in DAFZ and det. JP.

Reared from *Alcis repandatus* (Linnaeus) by EP.

Cotesia acuminata (Reinhard, 1880)

Apanteles acuminatus Reinhard, 1880:370. – Wilkinson 1945:36, Hellén 1958:63, Shenefelt 1972:433, Nixon 1965:133, Nixon 1974:500, Tobias et al. 1986:400, Papp 1987:209.

Cotesia acuminata: Papp 1988:153.

Reported by Hellén (1958) from Finland, province *N*.

New provincial record is *Sa*: Kerimäki, 13.7.1945 (EK, DAFZ, det. JP).

Reared from *Hypodryas matura* (Linnaeus) by OP in 1958 in *N*: Helsinki.

Cotesia jucunda (Marshall, 1885)

Apanteles jucundus Marshall, 1885:182. – Hellén 1958:63, Shenefelt 1972:542, Nixon 1974:466, Tobias et al. 1986:405, Papp 1987:235.

Cotesia jucunda: Papp 1988:154.

Syn. *Microgaster (Apanteles) nigrinervis* Thomson, 1895:2260 (Papp 1987).

Reported by Hellén (1955, 1958) from Finland, provinces *Al*, *Ab* and *Ta*.

New provincial record *N*: Helsinki, 6.7.1950 1 ♀ (EP, DAFZ, det. JP).

Reared from *Stenoptilia veronicae* Karvonen by EP.

Cotesia lineola (Curtis, 1830)

Microgaster lineola Curtis, 1830:321.

Apanteles lineola: Marshall 1872:106, Wilkinson 1945:98, Shenefelt 1972:556, Nixon 1974:476, Papp 1984:279, Tobias et al. 1986:403, Papp 1987:232.

Cotesia lineola: Papp 1988:154.

Material: In DAFZ there are 3 specimens determined by JP from Finland, *N*: Helsinki, 20.5.1958 1 ♀ and *Sa*: Taipalsaari (679:56), 1976 2 ♀♀ (EP).

New to the Finnish fauna. Known from England, Germany and Switzerland to Armenia of USSR and Turkey (Papp 1984, 1987, Tobias et al. 1986).

Reared from *Leioptilus osteodactylus* (Zeller) and *Eriogaster lanestris* (Linnaeus) by EP.

Cotesia ofella (Nixon, 1974)

Apanteles ofella Nixon, 1974:498. – Papp 1986:231.
Cotesia ofella: Papp 1988:155.

Material: In DAFZ there are 5 specimens from *Sa*: Punkaharju, reared from *Euthrix potatoria* (Linnaeus) by EK in 17.7.1945 (det. JP).

Reported by Papp (1986, 1988) from Finland.

Cotesia praepotens (Haliday, 1834)

Microgaster praepotens Haliday, 1834:253.

Apanteles praepotens: Marshall 1872:106, Wilkinson 1940:141, Hellén 1955:116, Shenefelt 1972:606, Nixon 1974:463, Papp 1986:240.

Cotesia praepotens: Papp 1988:155.

Reported by Hellén (1955) from Finland, province *Ab*.

New provincial records are *N*: Helsinki, 6.7.1950 1 ♀ (EP), (668:39) 27.7.1978 1 ♂, 6.9.1978 1 ♀ (MK) and *Sa*: Mikkeli rural mun. (683:50) 26.8.1978 1 ♀, Ristiina (682:50) 8.7.1978 1 ♀, 27.8.1978 1 ♀ (MK leg., DAFZ, det. JP).

Reared from *Stenoptilia veronicae* Karvonen by EP.

Cotesia ruficrus (Haliday, 1834)

Microgaster ruficrus Haliday, 1834:253.

Apanteles ruficrus: Marshall 1872:106, Hellén 1957:76, Shenefelt 1972:617, Nixon 1974:494, Papp 1986:228, 235, Tobias et al. 1986:389.

Cotesia ruficrus: Mason 1981:113, Papp 1988:155.

Material: In MZH there are specimens also from *Al*: Jomala, *Sa*: Rantasalmi and *Tb*: Rautalampi (WH leg., det. GN 1959 and 1975).

Reported by Hellén (1957) from Finland, province *Ta*.

Cotesia salebrosa (Marshall, 1885)

Apanteles salebrosus Marshall, 1885:164. – Shenefelt 1972:621, Papp 1987:220.

Cotesia salebrosa: Papp 1988:155.

Syn. *Apanteles callunae* Nixon, 1974:470 (Papp 1987).

Material: In DAFZ there is 1 ♂ from Finland, *N*: Helsinki, 19.8.1959, reared from *Eupithecia valerianata* (Hübner) by EP (det. JP 1984).

New to the Finnish fauna. Known from Sweden, Britain, Switzerland, Italy, Hungary, Bul-

garia and north-western USSR (Nixon 1974, Tobias et al. 1986, Papp 1987).

Cotesia spurius (Wesmael, 1837)

Microgaster spurius Wesmael, 1837:49.

Apanteles spurius: Reinhard 1880:364, Wilkinson 1945:42, Shenefelt 1972:639-640, Nixon 1974:481-482, Papp 1984:282, Tobias et al. 1986:400, Papp 1987:224.

Cotesia spurius: Papp 1988:156.

Reported by Hellén (1977) from Finland, province *Al*.

New records are *N*: Helsinki, 1937, 1958, 1976 (EP and OP); *Sr*: Suoniemi (VS); *Ta*: Kangasala, 2.7.1938 (AS), Pirkkala (TG) and Sääksmäki (E. Kivirikko leg.).

Reared from *Macrothylacia rubi* (Linnaeus) by EP, from *Biston betularius* (Linnaeus) by EP and OP and from *Diacrisia sannio* (Linnaeus) by AS.

Cotesia tetrica (Reinhard, 1880)

Apanteles tetricus Reinhard, 1880:367. – Wilkinson 1945:81, Hellén 1955:115, Shenefelt 1972:650, Nixon 1974:478, Papp 1986:229, Tobias et al. 1986:389, Papp 1987:217.

Cotesia tetrica: Papp 1988:156. Syn. *Microgaster (Apanteles) opaculus* Thomson, 1895:2237 (Papp 1973).

Apanteles opaculus: Dalla Torre 1898:179, Hellén 1955:116, Shenefelt 1972:587.

Material: In MZH there is a specimen also from *Le*: Saana (WH leg., det. GN).

Reported by Hellén (1955) from Finland, provinces *Al*, *N* and *Ta*.

Cotesia tibialis (Curtis, 1830)

Microgaster tibialis Curtis, 1830:321.

Apanteles tibialis: Fahringer 1937:259, Hellén 1957a:26, Shenefelt 1972:652, Nixon 1974:496-498, Papp 1986:230, Tobias et al. 1986:389.

Cotesia tibialis: Papp 1988:156.

Syn. *Microgaster congestus* Nees von Esenbeck, 1834:405 (Nixon 1974).

Apanteles congestus: Reinhard 1880:369, Hellén 1955:115, Shenefelt 1972:476-477.

Syn. *Apanteles simulans* Lyle, 1916:185 (Nixon 1974). – Hellén 1958b:63, Shenefelt 1972:631.

Reported by Hellén (1955, 1957a and 1958b) from Finland, provinces *Al*, *Ab*, *N*, *Ta*, *Kl*, *Oa* and *Tb*.

New records are *Sa*: Mäntyharju, 15.6.1954 2 ♂♂ (OP), Ristiina (682:50), 23.7.1978 1 ♀ (MK leg.).

Reared from *Graphiphora augur* (Fabricius) by OP.

Cotesia villana (Reinhard, 1880)

Apanteles villanus Reinhard, 1880:368. – Wilkinson 1945:660, Shenefelt 1972:660, Nixon 1974:499-500, Papp 1986:228, Tobias et al. 1986:389.

Cotesia villana: Papp 1988:156.

Material: In DAFZ there are 8 specimens from *N*: Tvärminne (664:28), 12.4.1976 (Tuija Salmi leg., det. JP).

Reported by Papp (1986) from Finland.

Reared from *Hyphoraia aulica* (Linnaeus) by Tuija Salmi.

Cotesia zyaenarum (Marshall, 1885)

Apanteles zyaenarum Marshall, 1885:181. – Wilkinson 1945:84, Hellén 1955:117, Hellén 1977:10, Shenefelt 1972:667, Nixon 1974:490, Tobias et al. 1986:388, 399, Papp 1987:223.

Cotesia zyaenarum: Papp 1988:156.

Reported by Hellén (1977) from Finland, province *Kl* and (1955) from Paanajärvi (now in Soviet Karelia).

New records are *Al*: Kökar, Karlby, 30.7.1955 (OP) and *N*: Pernå (=Pernaja) (Federley leg.).

Reared from *Diloba caeruleocephala* (Linnaeus) by OP and *Zygaena lonicerae* (Scheven) by Federley.

Pholetesor elpis (Nixon, 1973)

Apanteles elpis Nixon, 1973:210. – Papp 1983:250, Tobias et al. 1986:413.

Pholetesor elpis: Papp 1988:148.

Material: In DAFZ there is 1 ♀ from *Sa*: Mikkeli rural mun. (683:50), 5.8.1978 (MK leg., det. JP).

Reported by Papp (1983) from Finland without details.

Apanteles brunnistigma Abdinbekova, 1969

Apanteles brunnistigma Abdinbekova, 1969:74. – Papp 1980:270, Tobias et al. 1986:455, Papp 1988:149.

Syn. *Apanteles sotades* Nixon, 1976:703 (Papp 1980). – Hellén 1977:10.

Reported by Hellén (1977) from Finland, province *Kl*.

New record is *N*: Hyvinkää (671:37), 15.7.1978 1 ♀ (MK leg., DAFZ, det. JP 1984).

Apanteles metacarpalis (Thomson, 1895)

Microgaster (Apanteles) metacarpalis Thomson, 1895:2265.

Apanteles metacarpalis: Dalla Torre 1898:177, Hellén 1955:119, Nixon 1965:150, Shenefelt 1972:571, Nixon 1973:199, Mason 1981:52, Papp 1984:271, Tobias et al. 1986:416, Papp 1988:149.

Material: In MZH there is also a specimen from *Kl*: Parikkala (WH leg., det. GN 1975).

Reported by Hellén (1955) from Finland, provinces *Al* and *Ab*.

Dolichogenidea breviventris (Ratzeburg, 1848)

Microgaster breviventris Ratzeburg, 1848:51.

Apanteles breviventris: Marshall 1888:492, Papp 1978:286, Tobias et al. 1986:433.

Dolichogenidea breviventris: Papp 1988:147.

Syn. *Apanteles mesoxanthus* Ruschka in Kemner 1917:25 (Papp 1978). Wilkinson 1945:160, Hellén 1955:119, Shenefelt 1972:570.

Reported by Hellén (1955) from Finland, province *Kl*.

New record *Sa*: Mäntyharju, 4.7.1952 1 ♀ (OP), reared from *Coleophora* sp., presumably *serratella* (Linnaeus) = *fusedinella* Zeller.

Dolichogenidea coleophorae (Wilkinson, 1938)

Apanteles coleophorae Wilkinson, 1938:225. – Shenefelt 1972:475, Nixon 1976:697, Papp 1981:270.

Dolichogenidea coleophorae: Mason 1981:36, Papp 1988:147.

Material: In DAFZ there are 1 ♂ and 1 ♀ from *N*: Helsinki, reared from *Coleophora viminetella* Zeller by OP in 12.6.1946.

Mentioned by Papp (1981) from Finland.

Dolichogenidea lacteicolor (Viereck, 1911)

Apanteles lacteicolor Viereck, 1911:475. – Shenefelt 1972:545-546, Nixon 1976:696-697, Papp 1981:269, Tobias et al. 1986:457.

Dolichogenidea lacteicolor: Mason 1981:36, Papp 1988:147.

Material: In DAFZ there is 1 ♂ from Finland, *N*: Tvärminne, reared from *Nola cucullatella* (Linnaeus) by OP in 11.7.1972 (det. JP).

This Holarctic species is new to the Finnish fauna.

Dolichogenidea laevigata (Ratzeburg, 1848)

Microgaster laevigatus Ratzeburg, 1848:50.

Apanteles laevigatus: Wilkinson 1945:167, Hellén 1955: 119, Nixon 1972:712-713, Papp 1978:287, Tobias et al. 1986:433.

Dolichogenidea laevigata: Mason 1981:36, Papp 1988:147. Syn. *Microgaster hoplites* Ratzeburg 1848:50 (Wilkinson 1945).

Apanteles hoplites: Reinhard 1880:364, Shenefelt 1972:532.

Material: In MZH there is also a specimen from *Ob*: Karlö (=Hailuoto) (RFR leg., det. GN 1975).

Reported by Hellén (1955) from Finland, province *N*.

Dolichogenidea lineipes (Wesmael, 1837)

Microgaster lineipes Wesmael, 1837:57.

Apanteles lineipes: Marshall 1885:207, Hellén 1955:119, Shenefelt 1972:555, Nixon 1972:724-725, Papp 1980:249, Tobias et al. 1986:443.

Dolichogenidea lineipes: Mason 1981:36, Papp 1988:147.

Material: In MZH there are specimens also from *N*: Huopalahti, Munkkiniemi, 21.6.1945 (AS) and *Lk*: Muonio (J. A. Palmén leg.) (det. GN in 1957).

Reported by Hellén (1955) from Finland, province *Kl*.

Dolichogenidea longicalcar (Thomson, 1895)

Apanteles longicalcar Thomson, 1895:2267. — Hellén 1955:119, Shenefelt 1972:558, Nixon 1973:205, Papp 1980:251, Tobias et al. 1986:418.

Dolichogenidea longicalcar: Papp 1988:147.

Material: In MZH there is also a specimen from *Ob*: Hailuoto (Wuorentaus) and another from Soviet Karelia: Vaaseni, Podporozje, 6.8.1942 (P. Niemelä leg.) (both det. GN in 1972-1975).

Reported by Hellén (1955) from Finland, provinces *Al*, *N*, *St* and *Ta*.

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