

# New Danish encyrtids (Hymenoptera, Encyrtidae). In memory of R. W. Schlick.

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Peter Bonde Jensen: New Danish encyrtids (Hymenoptera, Encyrtidae). In memory of R. W. Schlick.  
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The following 61 species of Encyrtidae are new to Denmark. TETRACNEMINAE: *Anagyryus securicornis* Domenichini, *Anusia nasicornis* Förster, *Doliphoceras belibus* (Walker), *Leptomastidea bifasciata* (Mayr), *Mohelniella silhavyi* Hoffer. ENCYRTINAE: *Ageniaspis atricollis* (Dalman), *Amaurilyma citri* (Mercet), *Aphidencyrtus herbidus* (Dalman), *A. mamitus* (Walker), *Aphycus apicalis* (Dalman), *Aschitus jalysus* (Walker), *Baeocharis pascuorum* Mayr, *Bothriothorax aralius* (Walker), *B. clavicornis* (Dalman), *B. intermedius* Claridge, *B. paradoxus* (Dalman), *B. serratellus* (Dalman), *B. trichops* Thomson, *Cheilonaurus elegans* (Dalman), *C. paralia* (Walker), *C. submuticus* Thomson, *Coelopencyrtus callidii* (Jansson), *Copidosoma bohemicum* Hoffer, *C. flagellare* (Dalman), *Encyrtus swederi* Dalman, *Eusemion cornigerum* (Walker), *Gensiaspidius nobilis* (Nees), *Ginsiana carpetana* (Mercet), *Habrolepis dalmani* (Westwood), *Helegonatopus dimorphus* (Hoffer), *Holcothorax testaceipes* (Ratzeburg), *Homalotyloidea erginus* (Walker), *Isodromus flaviceps* (Dalman), *I. vinulus* (Dalman), *Litomastix agrotis* (Fonscolombe), *L. fusciquama* Thomson, *L. sosares* (Walker), *Mayrencyrtus imandes* (Walker), *Mercetencyrtus ambiguus* (Nees), *Metaphycus fulvifrons* (Walker), *Microterys cedrenus* (Walker), *M. fuscipennis* (Dalman), *M. lunatus* (Dalman), *M. subcupratus* (Dalman), *M. sylvius* (Dalman), *M. zarina* (Walker), *Mira mucora* Schellenberg, *Paralitomastix subalbicornis* Hoffer, *Pezaphycus obenbergeri* Novicky, *Prionomitus miratus* (Dalman), *P. tiliaris* (Dalman), *Prochilonaurus bolivari* Mercet, *Sectiliclava cleone* (Walker), *Thomsonisca amathus* (Walker), *Trechnites alni* Erdős, *T. flavipes* (Mercet), *T. fuscitarsis* Thomson, *Trichomasthus albimanus* Thomson, *Tyndarichus melanacis* (Dalman), *T. scaurus* (Walker), *Zaomma lambinus* (Walker).

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The collections of encyrtids in Danish museums were mainly established by R. W. Schlick (R. W. S.), who collected a great number of chalcids, but he never published on this insect group, J. P. Kryger (J. P. K.) and O. Bakkendorf (O. B.). Jensen (1983) treated most of the species previously recorded from Danmark.

The following list of encyrtids new to Denmark contains most of the species present in the collections at the Zoological Museum, University of Copenhagen (ZMUC), the Museum of Natural History, Aarhus (MNHA) and the authors own collection (coll. P. B. J.).

The abbreviations of the Danish faunistic provinces follow Enghoff & Nielsen (1977).

Notes on collector (if known), collection, museum (if the specimens are deposited at a museum) are given. Note: only the collection is mentioned if the specimens were collected by the author. Several of the determinations are based on comparisons with types at museums in England and Sweden.

## TETRACNEMINAE

*Anagyryus securicornis* Domenichini, 1953  
NEZ, Freerslev Hegn, 1.vi.1936, 1♀, J. P. K. (slide), ZMUC. NEZ, St. Dyrehave, 6.vi.1937, 1♀, J. P. K. (slide), ZMUC. NEZ, Lyngby Mose, 9.viii.1940, 1♀, J. P. K. (slide), ZMUC.

*Anusia nasicornis* Förster, 1860  
NEZ, Hillerød, Præstevangen, 21.vii.1929,  
1♀, O. B. (slide), ZMUC.

*Doliphoceras belibus* (Walker, 1837)  
NEZ, Tisvilde Hegn, 11.x.1927, 1♀, J. P. K.  
(slide), ZMUC. NEZ, Jægersborg Dyrehave,  
Fortunens Indelukke, 30.v.1940, 1♀, J. P. K.  
(slide), ZMUC.

*Leptomastidea bifasciata* (Mayr, 1876)  
NEZ, Vangede Mose, 4.vi.1906, 1♂, J. P. K.  
(slide), ZMUC. NEZ, Vangede Mose,  
8.viii.1906, 1♀, J. P. K. (slide), ZMUC.  
NEZ, Sandkro, 26.viii.1930, 4♀♀, J. P. K.  
(slides), ZMUC. NEZ, Sandkro,  
31.viii.1930, 3♀♀, J. P. K. (slides), ZMUC.

*Mohelniella silhavyi* Hoffer, 1964  
EJ, Strandkær, 10.viii.1982, 3♂♂, coll. P. B.  
J. EJ, Strandkær, 24.viii.1982, 1♀, coll. P. B.  
J.

## ENCYRTINAE

*Ageniaspis atricollis* (Dalman, 1820)  
EJ, Aarhus, Brabrandstien, 25.vii.1980, 1♀,  
coll. P. B. J. EJ, Aarhus, Brabrandstien,  
30.vii.1980, 1♀, coll. P. B. J. NEZ, Jægers-  
borg Dyrehave, 3.ix.1898, 1♀, coll. R. W.  
S., ZMUC. NEZ, Jægersborg Hegn, Bølle-  
mosen, 15.ix.1929, 1♀, O. B. (slide), ZMUC.

*Amaurilyma citri* (Mercet, 1921)  
NEZ, Tulstrup, Strødam, 8.viii.1927, 1♀, J.  
P. K. (slide), ZMUC. NEZ, Lyngby Mose,  
20.ix.1959, 1♀, O. B. (slide), ZMUC.

*Aphidencyrtus herbidas* (Dalman, 1820)  
EJ, Aarhus, Brabrandstien, 1.vi.1981,  
2♀♀, 1♂, coll. P. B. J. F. Tranekær, Flådet,  
3.viii.1883, 4♀♀, coll. R. W. S., ZMUC. The  
Danish material is close to *Encyrtus arian-  
tes* Walker, 1837, but as I have examined  
both the lectotypes of *Encyrtus herbidas*  
Dalman and *Encyrtus arianates* Walker, and  
studied material of both forms from several  
places in Europe, it is my opinion that  
*Encyrtus arianates* Walker is a junior syno-  
nym of *Encyrtus herbidas* Dalman, as already  
proposed by Graham (1958: 161).

*Aphidencyrtus mamitus* (Walker, 1837)  
Ej, Kielstrup, Lundshøj, 5.viii.1981, 1♀,

coll. P.B.J. EJ, Ålum, Øbakker, 12. viii.  
1981, 1♀, coll. P. B. J. EJ, Aarhus,  
Park of University, 10.ix.1982, 5♀♀, coll. P.  
B. J. NEZ, Charlottenlund, 3.ix.1878, 1♀,  
coll. R. W. S., ZMUC.

*Aphycus apicalis* (Dalman, 1820)  
NEZ, Jægersborg Dyrehave, Fortunens Inde-  
lukke, 23.vi.1907, 3♀♀, J. P. K. (slide),  
ZMUC. NEZ, Ll. Værløse, Ryget,  
10.viii.1924, 1♀, J. P. K. (slide), ZMUC.

*Aschitus jalysus* (Walker, 1837)  
NWZ, Røsnæs, 10.vi.1934, 1♀, J. P. K. (sli-  
de), ZMUC.

*Baeocharis pascuorum* Mayr, 1876  
EJ, Strandkær, 28.vii.1981, 1♂, coll. P. B. J.  
NEZ, Jægersborg Dyrehave, Fortunens Inde-  
lukke, 26.v.1925, 1♂, O. B. (slide), ZMUC.  
NEZ, Børstingerød Mose, 13.v.1938, 1♀, J.  
P. K. (slide), ZMUC.

*Bothriothorax aralius* (Walker, 1837)  
EJ, Aarhus, Brabrandstien, 8.ix.1980, 1♀,  
coll. P. B. J. EJ, Aarhus, Brabrandstien,  
18.vi.1981, 1♂, coll. P. B. J. SZ, Holme-  
gårds Mose, 11.ix.1960, 1♀, O. B. (slide),  
ZMUC.

*Bothriothorax clavicornis* (Dalman, 1820)  
EJ, Kristrup, 30.v.1982, 1♀, coll. P. B. J.  
EJ, Aarhus, Park of University, 14.x.1982,  
3♀♀, coll. P. B. J. NEZ, Charlottenlund,  
3.x.1878, 1♂, coll. R. W. S., ZMUC. NEZ,  
Jægersborg Dyrehave, 27.ix.1896, 1♀, coll.  
R.W.S., ZMUC. NEZ, Geelskov, 29. vii.  
1900, 2♂♂, coll. R. W. S., ZMUC.

*Bothriothorax intermedius* Claridge, 1964  
F, Åsø, 27.viii.1881, 1♀, coll. R.W.S.,  
ZMUC. F, Åsø, 2.ix.1888, 1♀, coll. R. W.  
S., ZMUC. NEZ, Charlottenlund, 12. ix.  
1877, 1♀, coll. R. W. S., ZMUC.

*Bothriothorax paradoxus* (Dalman, 1820)  
F, Åsø, 13.viii.1884, 1♀, 1♂, coll. R. W. S.,  
ZMUC. NEZ, Freerslev, 25.viii.1939, 1♀, O.  
B. (slide), ZMUC.

*Bothriothorax serratellus* (Dalman, 1820)  
F, Åsø, 5.ix.1880, 1♀, coll. R. W. S.,  
ZMUC. NEZ, Geelskov, 28.viii.1881, 1♀,

coll. R. W. S., ZMUC. NEZ, Tisvilde, 28.vii.1896, 1♂, coll. R. W. S., ZMUC. NEZ, Rødovre, 11.vii.1965, 1♂, W. Buch, ZMUC.

*Bothriothorax trichops* Thomson, 1876  
NEZ, Jægersborg Dyrehave, 22.vii.1883, 1♂, coll. R. W. S., ZMUC.

*Cheilonaurus elegans* (Dalman, 1820)  
EJ, Strandkær, 10.viii.1982, 2♀♀, 10♂♂, coll. P. B. J. EJ, Alling, 9.ix.1982, 9♀♀, 2♂♂, J. Bach & P. B. J., coll. P. B. J. LFM, Busene, Karensby Mose, 20.viii.1925, 2♀♀, O. B. (slides), ZMUC.

*Cheilonaurus paralia* (Walker, 1837)  
SJ, Gråsten, Rode Skov, 2.viii.1926, 1♀, O. B. (slide), ZMUC. NWJ, Lemvig, Romhede, 29.vi.1949, 1♀, H. P. S. Sønderup, J. P. K. (slide), ZMUC. NEZ, Lillerød, Sorte Mose, 9.vi.1930, 1♀, O. B. (slide), ZMUC. NEZ, Grønholt, Lygtemosen, 21.vii.1940, 1♀, J. P. K. (slide), ZMUC.

*Cheilonaurus submuticus* Thomson, 1876  
EJ, Strandkær, 28.vii.1981, 1♀, coll. P. B. J. NEJ, Rebild Bakker, 15.v.1981, 1♀, 5♂♂, coll. P. B. J.

*Coelopencyrtus callidii* (Jansson, 1957)  
NEZ, Hillerød, 1902 (no further data), 4♀♀, 1♂, S. C. Nielsen, coll. R. W. S., ZMUC; reared from larvae of *Prosopis communis* Nyl. (Apidae).

*Copidosoma bohemicum* Hoffer, 1969  
NEZ, Lyngby Mose, 9.viii.1940, 1♀, J. P. K. (slide), MNHA.

*Copidosoma flagellare* (Dalman, 1820)  
F. Brahetrolleborg, 22.vii.1894, 15♀♀, C. S. Larsen, coll. R. W. S., ZMUC. NEZ, København, 17.vii.1888, 40♀♀, F. Gudmann, coll. R. W. S., ZMUC.

The 15 specimens from Brahetrolleborg are identical with the lectotype of *Encyrtus flagellaris* Dalman, while I found the other specimens identical with the lectotype of *Encyrtus anceus* Walker. According to Graham (1958, 1969) *Encyrtus flagellaris* Dalman and *Encyrtus anceus* Walker, 1837 both represent valid species (note: the

measurements of the antennae segments of *Encyrtus flagellaris* Dalman given by Graham (1958: 168) are misleading). Unlike Graham, Hoffer (1970) considered *Encyrtus anceus* Walker a junior synonym of *Encyrtus flagellaris* Dalman, a judgment based on the wide range of variation of *Copidosoma flagellare* (Dalman) in his own collection. With the death of the great chalcidologist Dr. A. Hoffer many taxonomic problems concerning European encyrtids remained unsolved. I hope the near future will give me the opportunity to study the large and important collection of Dr. Hoffer.

*Encyrtus swederi* Dalman, 1820  
NEZ, Hillerød, Præstevang, 7.viii.1929, 1♀, J. P. K. (slide), ZMUC. NEZ, Lyngby Mose, 10.vii.1940, 1♀, J. P. K. (slide), ZMUC.

*Eusemion cornigerum* (Walker, 1838)  
NWZ, Verup, Bodals Mose, 23.viii.1931, 1♀, J. P. K. (slide), ZMUC. NEZ, Ll. Værlose, Ryget, 2.viii.1931, 1♀, O. B. (slide), ZMUC. NEZ, Børstingerød Mose, 27.vii.1936, 1♀, J. P. K. (slide), ZMUC.

*Geniaspidius nobilis* (Nees, 1834)  
EJ, Horsted, 17.-25.vii.1977, 1♀, T. Munk, MNHA.

*Ginsiana carpetana* (Mercet, 1921)  
EJ, Aarhus, Brabrandstien, 30.vii.1980, 1♀, coll. P. B. J. EJ, Aarhus, Brabrandstien, 18.vi.1981, 2♂♂, coll. P. B. J. F, Gulstav Klint, 27.vii.1978, 1♀, T. Munk, MNHA.

*Habrolepis dalmani* (Westwood, 1837)  
NEZ, Freerslev Hegn, 4.viii.1940, 1♀, J. P. K. (slide), MNHA.

*Helegonatopus dimorphus* (Hoffer, 1954)  
WJ, Randbøl Hede, 26.vi.1976, 1♀, T. Munk, MNHA.

*Holcothorax testaceipes* (Ratzeburg, 1848)  
LFM, Knuthenborg, 28.vi.1942, 2♀♀, J. P. K. (slide), ZMUC. NEZ, Lyngby Mose, 20.ix.1959, 1♀, O. B. (slide), ZMUC.

*Homalotyloidea erginus* (Walker, 1837)  
NEZ, Tisvilde, 8.vi.1887, 1♂, coll. R. W. S., ZMUC.

- Isodromus flaviceps* (Dalman, 1820)  
NEZ, Rude Skov, Ruderhegn, 3.ix.1893, 1♀, coll. R. W. S., ZMUC. NEZ, Jægersborg Hegn, Bøllemosen, 7.ix.1929, 1♀, J. P. K. (slide), MNHA.
- Isodromus vinulus* (Dalman, 1820)  
F, Åsø, 15.viii.1885, 1♂, coll. R. W. S., ZMUC. NEZ, København, 17.vii.1879, 1♀, coll. R. W. S., ZMUC.
- Litomastix agrotis* (Fonscolombe, 1832)  
EJ, Strandkær, 12.viii.1982, 54♀♀, 1♂, coll. P. B. J. F, Åsø, 11.viii.1882, 1♀, 3♂♂, coll. R. W. S., ZMUC.
- Litomastix fusciquama* Thomson, 1876  
EJ, Aarhus, Brabrandstien, 30.vii.1980, 1♀, coll. P. B. J. NEZ, Tulstrup, Strødam, 25.viii.1929, 1♀, J. P. K. (slide), ZMUC.
- Litomastix sosares* (Walker, 1837)  
EJ, Aarhus, Brabrandstien, 19.ix.1980, 4♀♀, coll. P. B. J.
- Mayrencyrtus imandes* (Walker, 1837)  
F, Åsø, 8.viii.1884, 1♀, coll. R. W. S., ZMUC. F, Åsø, 15.viii.1885, 1♀, coll. R. W. S., ZMUC.
- Mercetencyrtus ambiguus* (Nees, 1834)  
EJ, Horsted, 17-25.vii.1977, 1♀, T. Munk, MNHA. EJ, Horsted, 28.viii.1977, 1♀, 1♂, T. Munk, MNHA.
- Metaphycus fulvifrons* (Walker, 1838)  
EJ, Kristrup, 2.v.1982, 2♀♀, coll. P. B. J. EJ, Strandkær, 8.vii.1982, 1♀, coll. P. B. J. NEZ, Rude Skov, Ruderhegn, 12.viii.1883, 1♀, coll. R. W. S., ZMUC.
- Microterys cedrenus* (Walker, 1838)  
EJ, Strandkær, 21.x.1978, 1♀, S. Toft, coll. P. B. J. SZ, Holmegårds Mose, 23.vii.1936, 1♀, J. P. K. (slide), ZMUC.
- Microterys fuscipennis* (Dalman, 1820)  
EJ, Alling, 9.ix.1982, 1♀, J. Bach, coll. P. B. J. NEZ, Tisvilde, 20.viii.1877, 1♀, coll. R. W. S., ZMUC.
- Microterys lunatus* (Dalman, 1820)  
EJ, Kielstrup, 5.viii.1981, 2♀♀, coll. P. B. J. NEZ, Geelskov, 11.ix.1892, 1♀, coll. R. W. S., ZMUC.
- Microterys subcupratus* (Dalman, 1820)  
NEZ, Amager Fælled, 18.viii.1963, 1♀, O. B. (slide), ZMUC.
- Microterys sylvius* (Dalman, 1820)  
NEZ, Charlottenlund, 18.ix.1877, 2♀♀, coll. R. W. S., ZMUC. NEZ, Charlottenlund, 23.ix.1877, 4♀♀, coll. R. W. S., ZMUC.
- Microterys zarina* (Walker, 1837)  
EJ, Gl. Rye, 9.vi.1981, 4♀♀, 2 brachypterous and 2 macropterous specimens, 1♂, coll. P. B. J. EJ, Strandkær, 8.vii.1982, 1♀, coll. P. B. J.
- Encyrtus zarina* Walker, placed in *Microterys* Thomson by Graham (1969: 264), seems to be the brachypterous form of *Encyrtus rogenhoferi* Mayr, 1876 (in reaching at this opinion the lectotype of *Encyrtus zarina* Walker was compared with a specimen of *Microterys rogenhoferi* (Mayr); det. C. Ferriere). Unlike Ferriere, Trjapitzin (1964: 1457) proposed *rogenhoferi* placed in *Trichomasthus* Thomson. These discrepancies in the generical placement of Mayr's species are due to the severe difficulties in limiting and separating the genera *Microterys* Thomson and *Trichomasthus* Thomson. The systematic positions of *Encyrtus zarina* Walker and *Encyrtus rogenhoferi* Mayr, and whether the latter species is a junior synonym of the former, are all problems which should be discussed in the heavily needed revision of the European species of *Microterys*/*Trichomasthus*.
- Mira mucora* Schellenberg, 1803  
NEZ, St. Dyrehave, 1.v.1935, 3♀♀, 2♂♂, J. P. K. (slides), ZMUC.
- Paralitomastix subalbicornis* Hoffer, 1960  
EJ, Aarhus, Brabrandstien, 8.ix.1982, 1♀, coll. P. B. J. SZ, Holmegårds Mose, 11.ix.1960, 1♀, O. B. (slide), ZMUC. NEZ, Lyngby Mose, 18.vi.1936, 1♀, J. P. K. (slide), ZMUC.
- Pezaphycus obenbergeri* Novicky, 1926  
EJ, Strandkær, 7.-26.iv.1981, 1♀, coll. P. B. J. NEZ, Tulstrup, Strødam, 8.viii.1927, 1♀, J. P. K. (slide), ZMUC. NEZ, Grib Skov,

Magle Mose, 19.vi.1938, 1♀, J. P. K. (slide), ZMUC. NEZ, Freerslev Hegn, 4.viii.1940, 1♀, J. P. K. (slide), ZMUC.

*Prionomitus mitratus* (Dalman, 1820)  
NEZ, Ørholm Fælled, 29.ix.1877, 1♀, coll. R. W. S., ZMUC.

*Prionomitus tiliaris* (Dalman, 1820)  
EJ, Kristrup, 2.v.1982, 1♀, coll. P. B. J. EJ, Aarhus, Park of University, 14.ix.1982, 4♀♀, coll. P. B. J. NEZ, Charlottenlund, 23.ix.1877, 2♀♀, coll. R. W. S., ZMUC.

*Prochiloneurus bolivari* Mercet, 1919  
NEZ, Jægersborg Dyrehave, 7.viii.1906, 1♀, J. P. K. (slide), ZMUC.

*Sectiliclava cleone* (Walker, 1844)  
EJ, Salten Profilet, 9.vi.1981, 1♂, coll. P. B. J. NEZ, Jægersborg Dyrehave, 6.x.1878, 1♀, coll. R. W. S., ZMUC.

*Thomsonisca amathus* (Walker, 1838)  
NEZ, Jægersborg, Ermelunden, 3.vii.1907, 2♀♀, 1♂, J. P. K. (slides), ZMUC.

*Trechnites alni* Erdős, 1957  
LFM, Grænge, Hanemose, 26.viii.1944, 2♀♀, 1♂, J. P. K. (slides), ZMUC.

*Trechnites flavipes* (Mercet, 1921)  
LFM, Bøtø Plantage, 8.viii.1946, 1♀, J. P. K. (slide), ZMUC.

*Trechnites fuscitarsis* Thomson, 1876  
EJ, Aarhus, Brabrandstien, 15.ix.1980, 1♀, coll. P. B. J. EJ, Kielstrup, Lundshøj, 13.vi.1981, 1♀, coll. P. B. J. LFM, Grænge, Hanemose, 26.viii.1944, 4♀♀, 2♂♂, J. P. K. (slides), ZMUC.

*Trichomasthus albimanus* Thomson, 1876  
EJ, Strandkær, 8.vii.1982, 1♀, coll. P. B. J. NWJ, Agger, 8.vi.1919, 1♀, T. Mortensen, ZMUC.

*Tyndarichus melanacis* (Dalman, 1820)  
EJ, Strandkær, 8.vii.1982, 2♀♀, coll. P. B. J. NEZ, Ll. Værløse, Ryget, 4.ix.1923, 2♀♀, J. P. K. (slides), ZMUC.

*Tyndarichus scaurus* (Walker, 1837)  
EJ, Aarhus, Park of University, 10.ix.1982, 1♀, coll. P. B. J.

*Zaomma lambinus* (Walker, 1838)  
EJ, Strandkær, 17.ix.1978, 2♀♀, S. Toft, coll. P. B. J.

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I am grateful to P. Gjelstrup (MNHA) and to O. Lomholdt (ZMUC), who made it possible for me to study the Danish collections of encyrtids.

## Sammendrag

Nye danske encyrtider (Hymenoptera, Encyrtidae). Til mindet om R. W. Schlick.

Samlingerne af encyrtider på de danske museer blev hovedsaglig etableret af R. W. Schlick (R. W. S.), der indsamlede et stort antal chalcider, men aldrig publicerede om denne insektgruppe, J. P. Kryger (J. P. K.) og O. Bakkendorf (O. B.). Jensen (1983) behandlede hovedparten af tidligere angivne arter fra Danmark. Ovenstående liste omfatter størstedelen af de arter, der opbevares i samlingerne på Zoologisk Museum, København (ZMUC), Naturhistorisk Museum, Aarhus (MNHA) og i forfatterens egen samling (coll. P. B. J.). Forkortelserne for Danmarks faunistiske distrikter følger Enghoff & Nielsen (1977). Adskillige af bestemmelseerne er baseret på undersøgelser af typemateriale.

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