

THE PROVANCHER SPECIES OF PROCTOTRUPOIDEA
(HYMENOPTERA) ^{1, 2}

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Résumé

Les 24 espèces décrites par l'abbé Léon Provancher ont été examinées. Un court commentaire sur le statut actuel de chacune des espèces est présenté de même que l'état des spécimens types.

L'auteur propose aussi une nouvelle nomenclature dans neuf cas, huit combinaisons nouvelles et un synonyme nouveau pour les espèces suivantes : *Isostasius arietinus*, *Basalys ruficornis*, *Aneurhynchus inermis*, *Paphagus rugosus*, *Platymischus torquatus*, *Spilomicrus longicornis*, *Telenomus rufoniger*, *Trichacis auripes* and *Megaspilus lucens*.

Abstract

The type specimens of the 24 species described by l'abbé Léon Provancher were re-examined. A brief account of the conditions of each is given and they are classified in accordance with current concepts.

Eight new combinations and one new synonym are proposed for the following species : *Isostasius arietinus*, *Basalys ruficornis*, *Aneurhynchus inermis*, *Paphagus rugosus*, *Platymischus torquatus*, *Spilomicrus longicornis*, *Telenomus rufoniger*, *Trichacis auripes* and *Megaspilus lucens*.

Introduction

A general review of the work of Provancher and a history of his collection was published by Béique (1963, 1968). Gahan & Rohwer (1917, 1918) studied the types and selected lectotypes for all species of Hymenoptera, except

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Apoidea. The chalcidoid species were studied by Burks (1963), the ants by Francoeur & Béique (1966), and the braconids by Shenefelt (1968).

Between 1881-1888 Provancher described a total of 24 species which we assign to proctotrupoid wasps today. These were last examined in 1915 by Gahan & Rohwer (1917, 1918). Burks (1963), while examining the chalcidoid types, discovered that three species originally proposed by Provancher in that group in fact belonged to the family Scelionidae (Proctotrupeoidea). Two of them were studied later by Peck (cf. Muesebeck in Krombein, 1958) and one by Muesebeck (1956). Noel Comeau, the former curator of the Provancher collection, has put lectotype labels with his name on most of the proctotrupoid types as Gahan & Rohwer did not label the lectotypes as such (cf. Gahan & Rohwer, 1917 : 303).

The majority of the proctotrupoid types (22 species) is preserved in the Pure Science Building of Laval University, in Ste Foy. For a long time the collection at Lévis (Collège de Lévis) was believed to contain no types (cf. Gahan & Rohwer, 1917 : 300; Burks, 1963 : 1254). However, Francoeur & Béique (1966 : 140, 141) by examining the old Provancher correspondence discovered that the collection at Lévis contains potential types. This was also confirmed by me (cf. *Spilomicrus foveatus* Prov.). Burks (1963 : 1254) stated that all chalcids from Harrington's collection were returned by Provancher to Ottawa at about the time the descriptions were published. However, all Harrington's prototrupoids but one were retained in Québec. One type is in Ottawa (cf. *Spalangia aenea* Prov.).

The list of types as given below does not follow that of Gahan & Rohwer in that they followed the final index published by Provancher. I prefer, instead, to arrange the types alphabetically, by generic names as originally proposed by Provancher. The labels accompanying the types are referred from the top to the bottom of the pin.

Acerota opaca

Acerota opaca Provancher, 1887 : 184 (? sex)

Acerota opaca Gahan & Rohwer : 1917 : 304

Scelio opacus Muesebeck & Walkley : 1951 : 703

Yellow label 1381; *Acerota opaca* Prov.; Lectotype *Acerota opaca* Provancher, Comeau, 1941.

Male lectotype on card point, well preserved; two male paralectotypes by Comeau. Cap Rouge. Belongs to *Scelio* Latr. Type in Québec.

Aneurynchus (!) *aneurus*

- Aneurynchus* (!) *aneurus* Provancher, 1887 : 176 ♀
Platygaster aneurus Provancher : 1888 : 404
Platygaster aneurus Gahan & Rohwer : 1918 : 167
Aneurynchus (!) *aneurus* Muesebeck & Walkley : 1951 : 690 (unrecognized sp.)

Yellow label 1329; *Platygaster aneurus* Prov.; Lectotype No. 56 *Aneurynchus* (!) *aneurus* Provancher, Comeau, 1941 ♀.

Male (!) on card point, right antenna after segment 8 off, left antenna after segment 4 off. Unique. Ste. Gertrude. Belongs to *Platygaster* Latr. Type in Québec.

Aneurynchus (!) *inermis*

- Aneurynchus* (!) *inermis* Provancher, 1887 : 176 ♀
Pantoclis inermis Provancher : 1888 : 405
Pantoclis inermis Gahan & Rohwer : 1918 : 106
Aclista inermis Muesebeck & Walkley : 1951 : 687

Yellow label 1119; *Pantoclis inermis* Prov.; Lectotype No. 57 *Aneurynchus* (!) *inermis* Provancher, Comeau, 1941.

Male (!) on card point, right antenna after segment 9 and left after 8 missing. Cap Rouge and Ottawa (Harrington). It is *Zygota*-species, comb.n. Type in Québec.

Aneurynchus (!) *mellipes*

- Aneurynchus* (!) *mellipes* Provancher, 1888 : 404 ♂ Nomen nudum (stat. nov.)
Aneurynchus (!) *mellipes* Gahan & Rohwer : 1917 : 307

Yellow label 1331; *Aneurynchus* (!) *mellipes* Prov.; Lectotype No. 58 *Aneurynchus* (!) *mellipes* Provancher, Comeau, 1941.

Male pinned, well preserved. Provancher (1888 : 404) brought this name in synonymy with *Cinetus mellipes* Say (by error the author of *Cinetus mellipes* given is Provancher but Provancher himself corrected it to Say by stroke of a pen). It is an *Aneurhynchus* species. Type in Québec.

Aneurynchus (!) *spinosus*

- Aneurynchus* (!) *spinosus* Provancher, 1881 : 262 ♀
Aneurynchus (!) *spinosus* Provancher, 1887 : 560 (again described as new)
Oxylabis spinosus Provancher : 1888 : 405
Oxylabis spinosus Gahan & Rohwer : 1918 : 105
Oxylabis spinosa Muesebeck & Walkley : 1951 : 681

Blue label 759; yellow label 943; *Oxylabis spinosus* Prov.; Lectotype No. 59 *Aneurynchus* (!) *spinosus* Provancher, Comeau, 1941 ♀.

Female glued on transparent card, antennae missing except for left scape. It is an *Oxylabis*-species. Type in Québec.

Basalys ruficornis

Basalys ruficornis Provancher, 1881 : 261 ♂

Basalys ruficornis Provancher, 1887 : 560 (again described as new)

Basalys ruficornis Gahan & Rohwer : 1917 : 331

Basalys ruficornis Muesebeck in Krombein : 1958 : 90

Yellow label 913; *Basalys ruficornis* Prov.; Lectotype No. 41 *Basalys ruficornis* Provancher, Comeau, 1941.

Male on a card point, well preserved. Unique. It is a *Spilomicrus*-species, comb.n. Type in Québec.

Cinetus nasutus

Cinetus nasutus Provancher, 1887 : 178 ♀

Cinetus (!) *nasutus* Gahan & Rohwer : 1917 : 336

Miota nasuta Muesebeck & Walkley : 1951 : 685

Belyta nasuta Krombein & Burks : 1967; teste L. Masner

Blue label 769; yellow label 1328; *Cinetus nasutus* Prov.; Lectotype 270 *Cinetus nasutus* Provancher, Comeau, 1944.

Female on card point, right antenna missing. Ottawa (Harrington). It is a *Belyta*-species. Type in Québec.

Copelus paradoxus

Copelus paradoxus Provancher, 1881 : 207 ♀ (Braconidae)

Copelus paradoxus Provancher, 1887 : 540 (again described as new in Braconidae)

Helorus paradoxus Provancher : 1888 : 405 (Proctotrupidae)

Helorus paradoxus Gahan & Rohwer : 1917 : 427

Helorus paradoxus Muesebeck & Walkley : 1951 : 663

♀ (Provancher handwriting); yellow label 971; *Helorus paradoxus* Prov.; Lectotype 287 *Copelus paradoxus* Provancher, Comeau, 1944.

Female pinned, head missing. 1 ♀ paralectotype by Comeau. Cap Rouge. It is a *Helorus*-species. Type in Québec.

*Galesus Quebecensis**Galesus Quebecensis* Provancher, 1881 : 260 ♂*Galesus Quebecensis* Provancher, 1887 : 559 (again described as new)*Galesus quebecensis* Gahan & Rohwer : 1917 : 427*Psilus quebecensis* Muesebeck & Walkley : 1951 : 675

Yellow label 912; *Galesus Quebecensis* Prov.; Lectotype 513 *Galesus Quebecensis* Provancher, Comeau, 1944.

Male, left antenna after segment 8 missing, pinned. 1 ♂ paralectotype by Comeau is a different species (on card point). It is a *Psilus*-species. Type in Québec.

*Isostasis (!) arietinus**Isostasis (!) arietinus* Provancher, 1887 : 183 ♀*Baeoneura arietina* Provancher : 1888 : 403*Baeoneura arietina* Gahan & Rohwer : 1917 : 331*Isostasius arietinus* Muesebeck & Walkley : 1951 : 708

Yellow label 1380; *Baeoneura arietina* Prov.; Lectotype 712 *Isostasis (!) arietinus* Provancher, Comeau, 1945.

Male (!) badly glued on card point, right antenna after segment 9 and left antenna after 8 missing. Cap Rouge. It is a *Conostigmus*-species, comb.n. Type in Québec.

*Megaspilus lucens**Megaspilus lucens* Provancher, 1883 : 33 ♀*Megaspilus lucens* Provancher : 1887 : 808*Proctotrupes flavipes* Provancher : 1888 : 402*Megaspilus lucens* Gahan & Rohwer : 1918 : 30*Megaspilus lucens* Muesebeck & Walkley : 1951 : 665

618^a (not yellow label); *Megaspilus lucens* Prov.; Lectotype 805 *Megaspilus lucens* Provancher, Comeau, 1946.

Male (!), badly glued, most legs missing, right antenna after segment 2 and left after 3 broken off. Cap Rouge. It is a male of *Cryptoserphus abruptus* (Say), syn.n., not a synonym of *Proctotrupes flavipes* Prov. as suggested by Provancher (1888 : 402). Type in Québec.

*Paphagus rugosus**Paphagus rugosus* Provancher, 1881 : 293 ♂ (Chalcididae)*Paphagus rugosus* Provancher, 1887 : 572 (again described as new in Chalcididae)*Paphagus rugosus* Gahan & Rohwer : 1918 : 106*Stictoteleia rugosa* Muesebeck in Krombein : 1958 : 93 (teste Peck)*Paphagus rugosus* Burks : 1963 : 1259 (Scelionidae)

Yellow label 1383; *Paphagus rugosus* Prov.; Lectotype *Paphagus rugosus* Provancher, Comeau, 1950.

Male on card point, right antenna after segment 7 and left after 5 missing. It is a *Macroteleia*-species, comb.n. Type in Québec.

Platygaster Canadensis

Platygaster Canadensis Provancher, 1887 : 181 ♂
Isostasius Canadensis Provancher : 1888 : 403
Isostasius canadensis Gahan & Rohwer : 1917 : 432
Isocybus canadensis Muesebeck & Walkley : 1951 : 709

Blue label 117; yellow label 1333; *Isostasius Canadensis* Prov.

Male pinned, metasoma missing, right antenna missing, left antenna after segment 6 broken off. Unique. Not located by Gahan & Rohwer (1915). It is an *Isocybus*-species. Type in Québec.

Platymischus torquatus

Platymischus torquatus Provancher, 1887 : 182 ♀
Platymischus torquatus Gahan & Rohwer : 1918 : 168
Trichopria torquata Muesebeck & Walkley : 1951 : 680

Platymischus torquatus; pink label 53; yellow label 1337; *Platymischus torquatus* Prov.

Female on card point, right antenna missing, left antenna after segment 6 off. Hull and Cap Rouge. It is a *Diapria*-species, comb.n. Type in Québec.

Proctotrupes flavipes

Proctotrupes flavipes Provancher, 1881 : 264 ♀
Proctotrupes flavipes Provancher, 1887 : 562 (again described as new)
Proctotrupes flavipes Provancher : 1888 : 402
Proctotrupes flavipes Gahan & Rohwer : 1918 : 170
Cryptoserphus flavipes Muesebeck & Walkley : 1951 : 665

Proctotrupes flavipes; yellow label 618; *Proctotrupes flavipes* Prov.; Lectotype *Proctotrupes flavipes* Provancher, Comeau, 1947.

Female pinned, left antenna after segment 2 and right after 10 missing. Unique. It is a *Cryptoserphus*-species Type in Québec.

Proctotrupes rufigaster

Proctotrupes rufigaster Provancher, 1881 : 263 ♀

Proctotrupes rufigaster Provancher, 1887 : 561 (again described as new)

Proctotrupes rufigaster Gahan & Rohwer, 1918 : 170

Proctotrupes rufigaster Muesebeck & Walkley : 1951 : 663

Proctotrupes rufigaster; yellow label 641; Lectotype *Proctotrupes rufigaster* Provancher, Comeau 1947.

Female pinned, right antenna after segment 8 and left after 6 missing, right fore wing broken off. One more female marked as « Homotype ». Ottawa. A *Proctotrupes*-species. Type in Québec.

Ropronia pediculata

Ropronia pediculata Provancher, 1886 : 154 ♀ (Braconidae)

Ropronia pediculata Provancher : 1888 : 406 (Proctotrupidae)

Ropronia pediculata Gahan & Rohwer : 1918 : 171

Ropronia pediculata Muesebeck & Walkley : 1951 : 662

Ropronia pediculata; blue label 314; yellow label 1278; *Ropronia pediculata* Prov.

Female pinned, metasoma and most legs missing, right antenna after segment 9 and left after 11 broken off. Ottawa (Harrington). It is a *Ropronia*-species. Type in Québec.

Spalangia aenea

Spalangia aenea Provancher, 1887 : 200 ♂ (Chalcididae)

Spalangia aenea Gahan & Rohwer : 1918 : 196 (Chalcididae)

Trimorus aeneus Muesebeck in Krombein : 1958 : 92 (Scelionidae, teste Peck)

Spalangia aenea Burks : 1963 : 1262 (Scelionidae)

Spalangia aenea Prov.; yellow label 1367 (labels left in Quebec); *Spalangia aenea* Prov. Type 757 (in Harrington's hand). Type *Spalangia aenea* Prov. No. 102 (C.N.C. label); Lectotype *Spalangia aenea* Provancher, Comeau, Apr. 1940.

Male pinned, head and front legs missing. Ottawa (Harrington). It is a *Trimorus*-species. Type in Ottawa (Harrington collection).

Spilomicrus foveatus

Spilomicrus foveatus Provancher, 1887 : 176 ♀

Aneurychus (!) *foveatus* Provancher : 1888 : 404

Aneurychus (!) *foveatus* Gahan & Rohwer : 1917 : 307

Spilomicrus foveatus Muesebeck & Walkley : 1951 : 678

Spilomicrus foveatus; blue label 619 (i.e. yellow 1330); *Aneurynchus* (!) *foveatus* Prov.

Male (!) pinned, antennae broken off at scapes, left fore wing and some legs missing. Cap Rouge. It is an *Aneurhynchus*-species. Type at Lévis.

Spilomicrus longicornis

- Spilomicrus longicornis* Provancher, 1881 : 262 ♀
Spilomicrus longicornis Provancher, 1887 : 561 (again described as new)
Paramesius longicornis Provancher : 1888 : 405
Paramesius longicornis Gahan & Rohwer : 1918 : 106
Spilomicrus longicornis Muesebeck & Walkley : 1951 : 676

Spilomicrus longicornis; yellow label 950; *Paramesius longicornis* Prov.

Female pinned, right antennae after segment 3 missing. It is an *Aclista*-species, comb.n. Type in Québec.

Telenomus rufoniger

- Telenomus rufoniger* Provancher, 1888 : 403 ♂
Telenomus rufoniger Gahan & Rohwer : 1918 : 198
Telenomus rufoniger Muesebeck & Walkley : 1951 : 706 (unrecognized species)

Telenomus rufoniger; yellow label 1364; *Telenomus rufoniger* Prov.

Male on card point, right antennae after segment 5 off. Unique. Cap Rouge. It is a *Conostigmus*-species, comb.n. Type in Québec.

Telenomus stygicus

- Telenomus stygicus* Provancher, 1887 : 180 ♀
Telenomus stygicus Gahan & Rohwer : 1918 : 198
Telenomus stygicus Muesebeck & Walkley : 1951 : 672 (as a synonym of *Megaspilus armatus* (Say))

Telenomus stygicus; blue 20 on white label; yellow label 1120; *Telenomus stygicus* Prov.

Female pinned, metasoma missing, left fore tarsus missing, left hind tarsus partially missing. Ottawa (Harrington). It is a *Megaspilus*. Type in Québec.

Trichacis auripes

- Trichacis auripes* Provancher, 1888 : 403 ♀
Trichacis auripes Gahan & Rohwer : 1918 : 199
Trichacis auripes Muesebeck & Walkley : 1951 : 709

Trichacis auripes; yellow label 1597; *Trichacis auripes* Prov.

Two males (!) on card point, that at very point selected as lectotype, well preserved. One male paralectotype. Not located by Gahan & Rohwer in 1915. Cap Rouge. It is an *Isocybus*-species, comb.n. Type in Québec.

Trichasius clavatus

Trichasius clavatus Provancher, 1887 : 209 ♀ (Chalcididae)

Trichacius (!) *clavatus* Gahan & Rohwer : 1918 : 199

Bacus clavatus Muesebeck & Walkley : 1951 : 695

Trichasius clavatus Muesebeck : 1956 : 24

Trichasius clavatus Muesebeck in Krombein : 1958 : 92

Trichasius clavatus Burks : 1963 : 1263 (Scelionidae)

Trimorus clavatus Krombein & Burks : 1967; teste L. Masner

Blue label 764; yellow label 1376; *Trichasius clavatus* Prov.; Lectotype *Trichasius clavatus* Provancher (Burks' handwriting).

Female on card point, well preserved. Unique. Ottawa (Harrington). It is a *Trimorus*-species. Type in Québec.

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