

Records of Finnish *Trichopria* Ashmead, 1896 (Hymenoptera, Diapriidae) with twelve species new for Finland

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Following a study of the collections of Helsinki University twelve species of the genus *Trichopria* are recorded as new for Finland.

Helsingin yliopiston kokoelmien tutkimuksen jälkeen kaksitoista *Trichopria*-suvun lajia on rekisteröity Suomeen uusiksi.

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Introduction

Trichopria Ashmead, 1893 is a speciose genus of parasitoid wasps; these wasps attack dipteran puparia and are found commonly in moist habitats with decaying vegetation that favours their hosts. Despite their abundance Finnish species of *Trichopria* have been little studied and the only previously published records were made by Hellén (1963). The current project was initiated as part of a recuration of the collections of Helsinki University by VY who sent selected material to DGN for identification. We list here the material examined with some preliminary notes on status, distribution and ecology. No host records are available yet for Finnish material. Most of the species reported here are new for Finland, marking a substantial increase in knowledge of the Finnish entomofauna.

Methods and materials

Material of *Trichopria* from Finland and former Independent Finland was selected by VY from the collection of the Finnish Museum of Natural History, Helsinki University (LUOMUS) and by DGN from his personal collection (DNPC). Luomus specimens were digitised by VY with specimen records available from FinBIF (links below for each species). Additional specimen data was collected and specimen data revised by DGN; a date for one of Wegelius' numbered specimens was found by reference to the digitised Entomological notebooks here: <https://digit.luomus.fi/node/5803>. Identifications were undertaken by DGN using Nixon (1980), and Notton (1993 & 1994) with nomenclature updated following (Notton 1995).

Results

1. *Trichopria basalis* (Thomson, 1858)

Suomi: Etelä-Häme (EH), Heinola, 6777:3441, 29.vii.1980, ♂, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32590>); Etelä-Häme (EH), Nurmijärvi, 6715:3375, 3.ix.1977, ♀, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32533>); Etelä-Savo (ES), Mikkeli, 6826:3502, 20.ix.1980, ♂, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32581>); Uusimaa (U), Helsinki, 6682:3396, 2.ix.1981, ♂, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32568>); Uusimaa (U), Nurmijärvi, 6715:3376, 7.viii.1980, ♂, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32582>).

Notes. Previously reported from Finland by Hellén (1963) under the junior synonym *Trichopria ciliaris* Kieffer, 1911 and confirmed here.

2. *Trichopria credne* Nixon, 1980

Suomi: Etelä-Häme, pre-1979, ♀, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32558>); Etelä-Häme (EH), Mikkeli, Laajalampi länsiranta, 68398:35143, 1.vii.2016, ♀, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32542>); Etelä-Pohjanmaa (EP), Alavus, 6968:3336, 23.vii.1984, ♂, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32569>); Etelä-Savo (ES), Mikkeli, 6839:3506, 20.vii.1996, 2♂, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32595>, <http://id.luomus.fi/KR.32596>); Etelä-Savo (ES), Mikkeli, 6826:3502, 23.vi.1979, ♂, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32602>); Pohjois-Savo (PS), Pielavesi, 701:349, 28.vi.1989, ♀, M. Koponen (LUO-

MUS, <http://id.luomus.fi/KR.32538>); Pohjois-Savo (PS), Varkaus, Kangaslampi, 4.viii.1998, ♂, N. Laurenne (DNPC); Uusimaa (U), Helsinki, Uutela, 668:339, 13.viii.1998, 2♂, N. Laurenne (DNPC); Uusimaa (U), Helsinki, Uutela, 668:339, 18.vii.1998, ♂, N. Laurenne (DNPC).

Notes. New for Finland.

3. *Trichopria fucicola* (Walker, 1834)

Suomi: Uusimaa (U), Raasepori, pre-1979, ♀, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32547>); Varsinais-Suomi (V), Uusikaupunki, pre-1979, ♀, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32548>).

Notes. Finnish material from Luomus was initially identified by DGN in 2008, see previous observation records on the Finnish Biodiversity Information Facility <https://laji.fi/en>, and is confirmed here as new for Finland.

4. *Trichopria halterata* (Kieffer, 1909)

Russian Federation: Tytärsaari, pre-1979, ♀, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32553>).

Notes. Finnish material identified as *Trichopria aptera* (Ruthe, 1859) by Hellén (1963) may really belong to *T. halterata*; the interpretation of *T. aptera* is currently unclear as the type is lost (Hübner, et al. 2024).

5. *Trichopria hyalinipennis* (Thomson, 1858)

Suomi: Uusimaa (U), Nurmijärvi, 6708:3376, 8.viii.1986, ♀, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32546>); Uusimaa (U), Vantaa, 9.v.1963, ♀, A. G. Wegelius (LUOMUS, <http://id.luomus.fi/KR.32560>); **Russian Federation:** Federal City of Saint Petersburg, Terijoki, pre-1979, ♀, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32557>).

Notes. This species was previously reported from Finland by Hellén (1963) although it is not certain that he identified it correctly; at least his male specimens must have been misidentified since he incorrectly considered they had antennae without verticillate hairs. Whether Hellén's records based on females are correct or not *T. hyalinipennis* is confirmed here as a Finnish insect.

6. *Trichopria nigra* (Nees, 1834)

Suomi: Åland (A), Hammarland, 29.vii.1953, ♂, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32583>); Etelä-Savo (ES), Mikkeli, 6826:3502, 22.viii.1975, ♂, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32586>); Kainuu (Kn), Paltamo, 7145:3532, 2.vii.1991, ♀, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32543>); Ladoga Karelia (LK), Parikkala, pre-1979, ♂, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32593>); Uusimaa (U), Hanko, 664:327, 2.vii.1978, ♂, E. Valkeila (LUOMUS, <http://id.luomus.fi/KR.32585>); Uusimaa (U), Hyvinkää, 6718:3372, 9.viii.1985, ♂, M. Koponen

(LUOMUS, <http://id.luomus.fi/KR.32587>); Uusimaa (U), Nurmijärvi, 6712:3373, 13.v.1984, ♀, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32537>); Uusimaa (U), Nurmijärvi, 6715:3376, 18.viii.1979, ♀, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32541>); Uusimaa (U), Nurmijärvi, 6707:3380, 27.viii.1985, ♂, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32588>); Uusimaa (U), Nurmijärvi, 6707:3381, 5.v.1984, ♀, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32536>); Uusimaa (U), Vantaa, pre-1979, ♀, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32551>).

Notes. A common species previously reported from Finland by Hellén (1963) and confirmed here.

7. *Trichopria nigricornis* (Marshall, 1868)

Suomi: Åland (A), Jomala, pre-1979, ♀, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32561>); Åland (A), Kökar, pre-1979, ♂, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32600>); Varsinais-Suomi (V), Uusikaupunki, pre-1979, ♂, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32599>).

Notes. New for Finland. Known to be an exclusively coastal species in the United Kingdom, the Finnish records are consistent with this.

8. *Trichopria nixonii* Notton, 1995

Suomi: Uusimaa (U), Nurmijärvi, 6715:3376, 23.viii.1980, ♂, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32605>).

Notes. Finnish material from Luomus was initially identified by DGN in 2004, see previous observation records on the Finnish Biodiversity Information Facility <https://laji.fi/en>, and is confirmed here as new for Finland. The specimen noted above is a male with the distinctively flattened head.

9. *Trichopria oogaster* (Thomson, 1858)

Suomi: Keski-Pohjanmaa (KP), Kalajoki, 7132:3352, 21.vii.1980, ♀, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32555>); Pohjois-Häme (PH), Virrat, 6908:3332, 23.vii.1980, ♂, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32570>).

Notes. Previously reported from Finland by Hellén (1963) and confirmed here.

10. *Trichopria paludicola* Notton, 1995

Suomi: Etelä-Savo (ES), Mikkeli, 6826:3502, 5.ix.1981, ♀, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32535>); Keski-Pohjanmaa (KP), Kalajoki, 7132:3352, 21.vii.1980, 2♂, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32597>, <http://id.luomus.fi/KR.32598>); Uusimaa (U), Nurmijärvi, 6711:3377, 8.viii.1989, ♂, M. Koponen (DNPC); Varsinais-Suomi (V), Lohja, pre-1979, ♂, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32601>).

Notes. New for Finland. In the United Kingdom this species is associated with wetland habitats

11. *Trichopria picipes* (Nees, 1834)

Suomi: Uusimaa (U), Helsinki, Uutela, 668:339, 2.viii.1998, ♂, N. Laurenne (DNPC); Uusimaa (U), Nurmijärvi, 6708:3380, 29.vii.1995, ♂, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32592>); Varsinais-Suomi (V), Lohja, pre-1979, ♂, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32594>); Varsinais-Suomi (V), Uusikaupunki, pre-1979, ♂, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32589>).

Notes. New for Finland.

12. *Trichopria prema* Nixon, 1980

Suomi: Pohjois-Savo (PS), Varkaus, Kangaslampi, vii.1999, ♂, N. Laurenne (DNPC).

Notes. New for Finland.

13. *Trichopria rubrithoraca* Szabó, 1960

Suomi: Uusimaa (U), Raasepori, pre-1979, ♀, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32552>).

Notes. New for Finland. A rarely collected species in Europe (Notton 1994).

14. *Trichopria striata* Notton, 1993

Suomi: Etelä-Häme (EH), Jämsä, 6867:3409, 27.viii.1991, ♀, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32539>); Ladoga Karelia (LK), Parikkala, pre-1979, ♂, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32584>).

Notes. New for Finland. In the United Kingdom this species is associated with wetland habitats (Notton 1993) providing an ecological distinction from the closely related *T. nigra*.

15. *Trichopria subimpressa* (Kieffer, 1911)

Suomi: Åland (A), Maarianhamina, 31.vii.1953, ♂, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32579>); Etelä-Häme (EH), Tampere, Teisko, 1927, ♀, A. G. Wegelius (LUOMUS, <http://id.luomus.fi/KR.32554>); Etelä-Pohjanmaa (EP), Kauhava, 7011:3287, 13.vii.1980, ♂, M. Koponen (LUOMUS, <http://id.luomus.fi/KR.32604>); Uusimaa (U), Helsinki, Pasila, pre-1979, ♂, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32576>); Uusimaa (U), Raasepori, pre-1979, ♂, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32577>); Varsinais-Suomi (V), Uusikaupunki, pre-1979, ♂, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32578>).

Notes. New for Finland.

16. *Trichopria suspecta* (Nees, 1834)

Suomi: Åland (A), Föglö, pre-1979, ♀, W. Hellén (LUOMUS, <http://id.luomus.fi/KR.32562>); Uusimaa (U), Helsinki, 4.x.1965, ♀, A. G. Wegelius (LUOMUS, <http://id.luomus.fi/KR.32559>).

Notes. New for Finland.

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