

NOTA BREU

First record of *Phaenoglyphis heterocera* (Hartig, 1841) (Hymenoptera: Cynipoidea: Figitidae: Charipinae) from Algeria**Primera cita de *Phaenoglyphis heterocera* (Hartig, 1841) (Hymenoptera: Cynipoidea: Figitidae: Charipinae) a Algèria**

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The Charipinae (Hymenoptera: Cynipoidea: Figitidae) is a subfamily distributed worldwide (Ferrer-Suay *et al.*, 2012). They are very small wasps, smooth and shiny. This subfamily is compound by eight valid genera: *Alloxysta* Förster, 1869 (cosmopolitan), *Phaenoglyphis* Förster, 1869 (cosmopolitan), *Lytoxysta* Kieffer, 1909 (North America), *Loboptercharrips* Paretas-Martínez & Pujade-Villar, 2007 (Nepal), *Dilyta* Förster, 1869 (cosmopolitan except Australia), *Apocharrips* Fergusson, 1986 (Eastern Palaearctic and Neotropics), *Dilapothor* Paretas-Martínez & Pujade-Villar, 2006 (Australia) and *Thoreauana* Girault, 1930 (Australia).

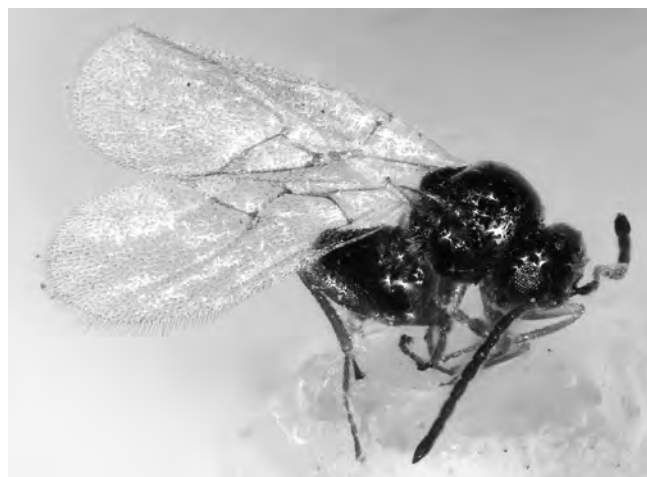
Until now only seven Charipinae species were recorded from Algeria: *Alloxysta arcuata* (Kieffer, 1902), *A. consobrina* (Zetterstedt, 1838), *A. fracticornis* (Thomson, 1862), *A. pilipennis* (Hartig, 1840), *A. quedenfeldti* (Kieffer, 1909), *A. victrix* (Westwood, 1833) and *Phaenoglyphis villosa* (Hartig, 1841). Thanks to collection studies in this region here a new *Phaenoglyphis* species is cited for the first time, *P. heterocera* (Hartig, 1841).

Phaenoglyphis Förster, 1869 is one of the most diverse genus within Charipinae. It is composed by 34 species (www.charipinaedatabase.com). This genus is well distributed worldwide but previously only *P. villosa* was cited in Algeria by Kieffer (1909). It is the first time that *P. heterocera* is cited in this country. The distribution of *P. heterocera* is Holarctic, it was described from Europe (Germany) by Hartig (1841), and then it has been recorded from several countries in this region (Ferrer-Suay *et al.*, 2012), and more recently it was recorded for the first time in USA and Canada (Ferrer-Suay *et al.*, 2014a). This species has been associated with a wide variety of hosts, and here new host as well as trophic relationship is established: *Citrus clementina* Tanaka, 1961 - *Aphis spiraecola* (Patch, 1914).

Phaenoglyphis heterocera (Fig. 1) is mainly characterized by having F1 shorter than pedicel in female but longer in male, rhinaria and club shape beginning in F3, rounded

scutellar foveae not delimited apically and basally. It is similar to *Phaenoglyphis stenosis* Andrews, 1978, but they can be differentiated by the beginning of rhinaria: in F3 in *P. heterocera* but F2 in *P. stenosis*; F1 shorter than pedicel in *P. heterocera* female but F1 longer than pedicel in *P. stenosis* female; F1-F3 subequal in length in *P. heterocera* female while F1-F3 not subequal in *P. stenosis* female; scutellar fovea separated by a carina in *P. heterocera* but slightly fused in *P. stenosis*.

Phaenoglyphis heterocera has a Nearctic and Western Palaearctic distribution: Austria (Dalla Torre & Kieffer, 1910: 275); Canada (Alberta) (Ferrer-Suay *et al.*, 2014a: 67); England (Cameron, 1890: 234); France (Kieffer, 1904a: 598; De Gaulle, 1908: 26); Germany (Hartig, 1841: 351); Italy (Ferrer-Suay *et al.*, 2014b: 10); Romania (Feraru & Mustata, 2005: 75); Sweden (Andrews, 1978: 84); The Netherlands (Dettmer, 1925: 124); and USA (Arizona and Colorado) (Ferrer-Suay *et al.*, 2014a: 67).

Figure 1. Habitus of *Phaenoglyphis heterocera* (Hartig, 1841).

NOTA BREU

The known hosts of *P. heterocera* are the following (HP: Plant, HA: Aphid, HW: parasitoid): HP: *Conium* sp. / HA: *Aphis* sp. / HW: unknown (De Gaulle, 1908: 26). HP: unknown / HA: *Aphis viciae* Fabricius, 1781 and *Aphis plantaginis* Goeze, 1778 / HW: unknown (Dalla Torre & Kieffer, 1910: 275). HP: *Conium maculatum* L. / HA: *Aphis* L. sp. / HW: unknown (Dalla Torre & Kieffer, 1910: 287). HP: *Eryngium campestre* L. and *Rumex acetosella* L. / HA: unknown / HW: unknown (Andrews, 1978: 84). HP: *Heraclium sphondylium* L. / HA: unknown / HW: unknown (Andrews, 1978: 95). HP: *Conium maculatum* / HA: *Cavariella* sp. / HW: *Trioxys* sp. (Evenhuis & Barbotin, 1987: 218). HP: *Crepis biennis* L. / HA: *Uroleucon cichorii* (Koch, 1855) / HW: *Lipolexis gracilis* Förster, 1862; HP: *Arctium lappa* L. / HA: *Brachycaudus* sp. / HW: *Lysiphlebus* gr. *fabarum*; HP: *Cirsium arvense* (L.) / HA: *Aphis fabae* Scopoli, 1763 / HW: *Lysiphlebus fabarum* (Marshall, 1896); HP: *Sambucus nigra* L. / HA: *Aphis sambuci* Linnaeus, 1758 / HW: *Binodoxys angelicae* (Haliday, 1833), *Praon abjectum* (Haliday, 1833) (Ferrer-Suay *et al.*, *in press*).

Material studied

1 ♀: Mazaghran Wilaya, Mostaganem, ALG., v.2016, On *Citrus x clementina*, Ex. *Aphis spiraeicola*, leg. Labdaoui M. Zine Eddine.

The trophic relationship here recorded: *Citrus clementina* - *Aphis spiraeicola* is new for *P. heterocera*.

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