

*Embolemus reticulatus* new to Hungary  
(Hymenoptera: Embolemidae)

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**Abstract** – *Embolemus reticulatus* van Achterberg, 2000 (Hymenoptera: Embolemidae) is reported for the first time from Hungary. The species was described from the Netherlands; hence, the current report represents its second country-level record. With three figures.

**Key words** – Aculeata, Europe, faunistics, new record

## INTRODUCTION

Embolemidae (Hymenoptera: Aculeata: Chrysoidea) is a small family of solitary parasitoid wasps with about 70 extant, valid species distributed worldwide (CHÉNY *et al.* 2020). Hosts of the species of Embolemidae are planthopper nymphs of the families Achilidae and Cixiidae (Hemiptera: Auchenorrhyncha); however, it should be noted that hosts of most species are not yet known (VAN ACHTERBERG & VAN KATS 2000).

The Palaearctic species were revised by VAN ACHTERBERG & VAN KATS (2000). Two species of the family are known to occur in Europe: *Embolemus ruddii* Westwood, 1833 and *Embolemus reticulatus* van Achterberg, 2000; the former species is widely distributed in the Palaearctic region (and is present in Hungary as well), while the latter has been known only from the Netherlands so far (VAN ACHTERBERG & VAN KATS 2000, OLMÍ *et al.* 2014, CHÉNY *et al.* 2020). In this paper, we report *Embolemus reticulatus* from Hungary for the first time.

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Taxonomy, nomenclature and identification are based on VAN ACHTERBERG & VAN KATS (2000). *Embolemus reticulatus* was originally described in combination with *Embolemus* Westwood, 1833, along with proposing *Ampulicomorpha* Ashmead, 1893 as a junior subjective synonym of *Embolemus* in the same paper (VAN ACHTERBERG & VAN KATS 2000). However, OLMÍ *et al.* (2014) did not accept the synonym status of *Ampulicomorpha*, and put the species in new combination as *Ampulicomorpha reticulata*. Here we follow and accept the detailed and demonstrative argument of VAN ACHTERBERG & VAN KATS (2000), rather than the argument of OLMÍ *et al.* (2014), thus we treat *Ampulicomorpha* as a junior subjective synonym of *Embolemus*, and present the newly recorded species in its original combination.

## RESULTS

### *Embolemus reticulatus* van Achterberg, 2000 (Figs 1–3)

*Embolemus reticulatus* van Achterberg, 2000 – VAN ACHTERBERG & VAN KATS 2000: 256.

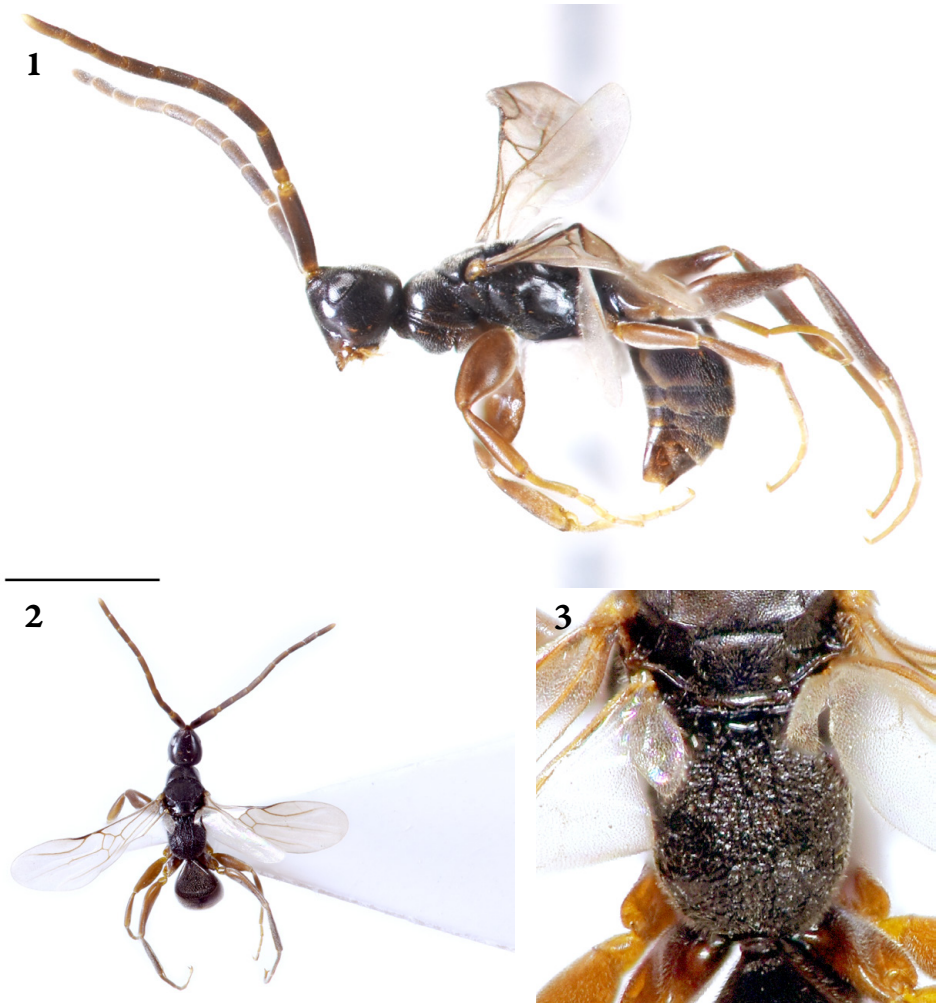
*Ampulicomorpha reticulata* (van Achterberg, 2000) – OLMÍ *et al.* 2014: 633.

*Material examined* – One female: Hungary, Hajdú-Bihar County, Hajdúszoboszló, Ös-Kösely, 47.4558, 21.3184, 10–12.VI.2022, leg. V. Szőke & Z. Vas, Malaise-trap; det. Z. Vas (2022), det. P. Szöllösi-Tóth (2024); specimen card-mounted; deposited in the Hymenoptera Collection of the Hungarian Natural History Museum, Budapest (HNHM).

*Distribution* – First record from Hungary. The species has been known from the Netherlands hitherto, hence the current report represents its second country-level record.

*Identification* – Body length 3.4 mm. The conspicuously cone-shaped head unambiguously determines the family- and genus-level identification (Figs 1–2). Females of *Embolemus reticulatus* can be readily distinguished from the females of *Embolemus ruddii*, as females of the former species are macropterous (wings normal, reaching apex of metasoma) and have ocelli developed, while females of the latter species are micropterous (wings extremely reduced, barely longer than tegula) and have no ocelli. The characteristic carination of the propodeum of *Embolemus reticulatus* is also distinctive (Fig. 3). Male sex of *Embolemus reticulatus* is unknown. See VAN ACHTERBERG & VAN KATS (2000) for a complete identification key to the genus.

*Remarks* – The Hungarian voucher specimen is slightly darker, more brownish than the type specimens from the Netherlands; other characteristic features agree with VAN ACHTERBERG & VAN KATS (2000).



**Figures 1–3.** *Embolemus reticulatus* van Achterberg, 2000, voucher specimen from Hajdúszoboszló, Hungary. 1 = lateral habitus, scale bar = 1 mm; 2 = dorsal habitus; 3 = propodeum in dorsal view (photos by Anna Ágnes Somogyi)

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### Új kúpféjűdarázfaj Magyarország faunájában: *Embolemus reticulatus* (Hymenoptera: Embolemidae)

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**Összefoglalás** – Az *Embolemus reticulatus* van Achterberg, 2000 nevű kúpféjűdarázfaj (Hymenoptera: Aculeata: Chrysidoidea: Embolemidae) első magyarországi előfordulási adatait közlik a szerzők. A fajt Hollandiából írták le, azóta máshonnan nem mutatták ki, így a hazai a második országos szintű előfordulási adat. Három ábrával.

**Kulcsszavak** – Európa, faunisztika, fullánkosok, új adat

### ÁBRAMAGYARÁZAT

**1–3. ábrák.** Az *Embolemus reticulatus* van Achterberg, 2000 magyarországi (hajdúszoboszlói) bizonyítópéldánya. 1 = oldalnézet, méretléc = 1 mm; 2 = felülnézet; 3 = áltorszelvény felülnézete (fotók: Somogyi Anna Ágnes)

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