

# Braconidae (Hymenoptera) of Norway, Part II

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The present faunistic survey gives distributional records for 125 species of the family Braconidae (Hymenoptera) from several subfamilies (Agathidinae, Alysiinae, Aphidiinae, Brachistinae, Braconinae, Cheloninae, Doryctinae, Helconinae, Macrocentrinae, Microgasterinae, Opiinae, Orgilinae, Rhyssalinae). 79 taxa have previously not been reported from Norway. Nine of them are new to Scandinavia, namely *Phaenocarpa fidelis* Fischer, 1970, *Phaenocarpa trisulcata* Stelfox, 1950, *Eubazus planifacies* van Achterberg, 2003, *Eubazus shishiniovae* van Achterberg, 2000, *Chelonus lissogaster* Tobias, 1972, *Syntretus conterminus* (Nees, 1834), *Macrocentrus cingulum* Brischke, 1882, *Microgaster subcompleta* Nees, 1834, and *Orgilus ischnus* Marshall, 1898. A further 46 species previously recorded as Norwegian in Fauna Europaea (van Achterberg 2014), but with no further locality information, are also included in the list.

Key words: Norway, Scandinavia, new records, Braconidae, Agathidinae, Alysiinae, Aphidiinae, Brachistinae, Braconinae, Cheloninae, Doryctinae, Helconinae, Macrocentrinae, Microgastrinae, Orgilinae, Opiinae, Rhyssalinae.

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## Introduction

With more than 20 000 species worldwide, Braconidae represents a major family of parasitoid Hymenoptera (Yu *et al.* 2012). Despite their abundance and economic importance, braconid wasps have only been studied by a few entomologists leaving their taxonomy and geographical distribution in a fragmentary state, even in better studied areas such as Europe.

Previous studies on Norwegian Braconidae have reported 271 different species from this country (Van Achterberg 2014). Only one larger publication on Braconidae has been published in the last two decades, and that is Riedel *et al.* (2002) which reported 81 braconid taxa for the first time from Norway.

To establish a better knowledge of the diversity and distribution of Norwegian Braconidae, we determined additional material and collected from different localities around Norway. The present publication covers several braconid subfamilies which just recently could be studied sufficiently due to the availability of newer taxonomic revisions and identification keys.

## Material and methods

The present paper deals with material of Braconidae mostly collected in the southern and southeastern parts of the country, mainly by the use of Malaise traps or hand-nets. To avoid misinterpretations, we excluded the species