Hymenoptera by Venation

Compiled by Hilary Bedford

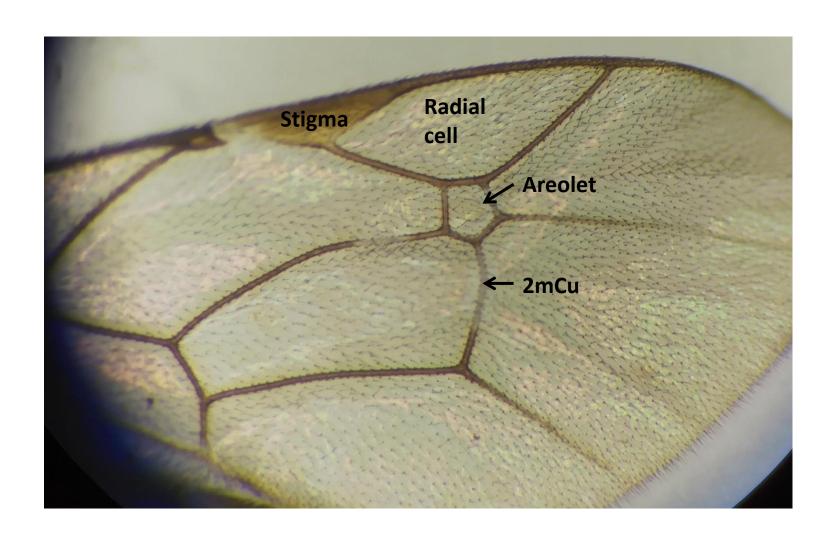
Introduction

Many families of hymenoptera can be recognised by their venation. This guide does not pretend to be comprehensive, and only includes parasitic groups. It should enable you to have an idea of which family your specimen is in and so which key to use to try and identify it. Some available keys are given at the end.

Other features may be needed in some cases, if so these are included in this guide.

The photos are in order of reduced venation

Ichneumonidae



Braconidae



All Braconidae lack vein 2mCu

Braconidae (Microgastrinae)



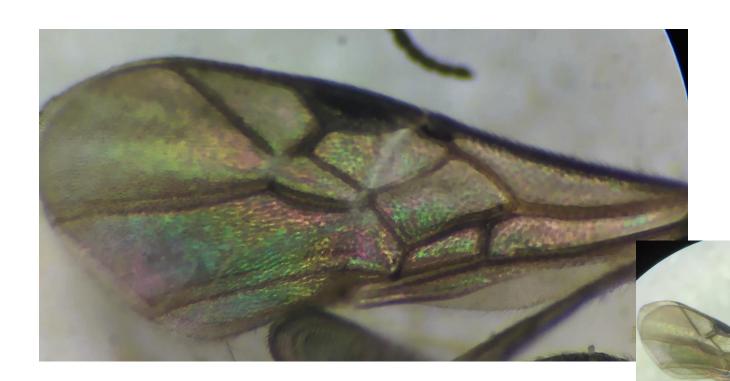
Aphidiidae



Cheloninae (Braconidae)

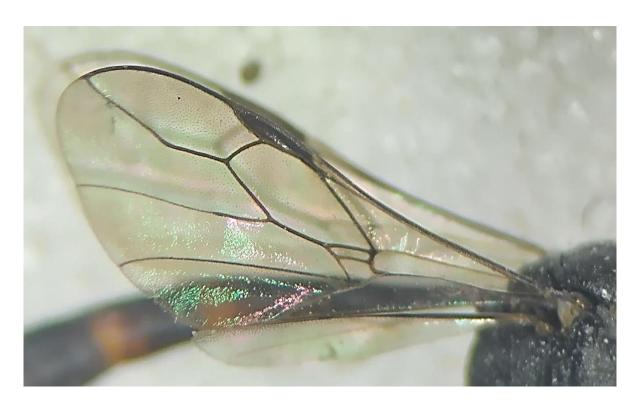
Whole

insect



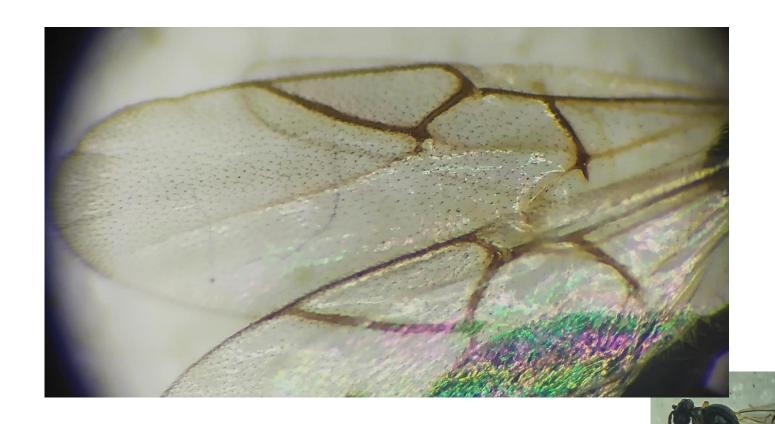
Abdomen in the form of a carapace

Gasteruptiidae

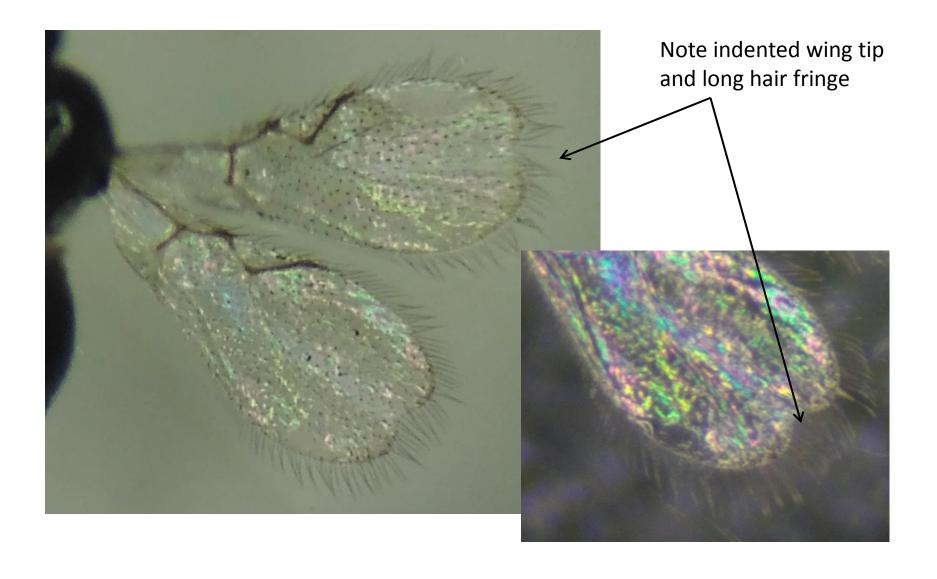


Abdomen inserted high up on propodeum

Cynipidae



Kleidotoma (Cynipidae, Eucoilidae)



Diapriidae (Diapriinae)

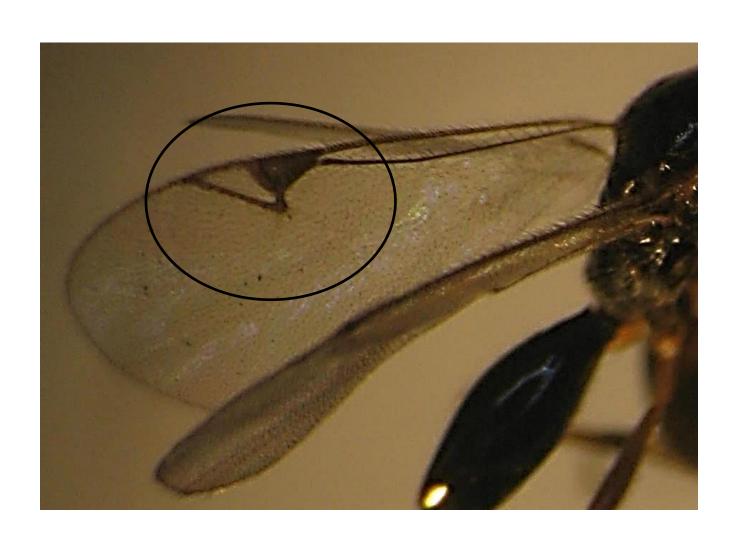


Antennae usually on frontal prominence opening upwards

Diapriidae (Belytinae)



Proctotrupidae (Serphidae)



Ceraphronidae



Megaspilidae



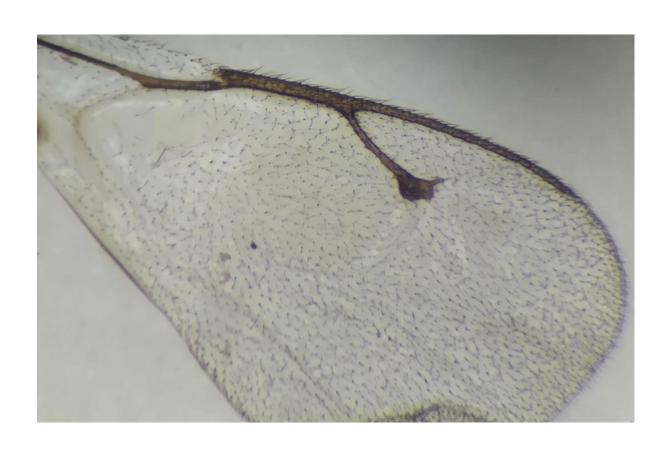
Dryinidae





Fore tarsus on female

Chalcidae

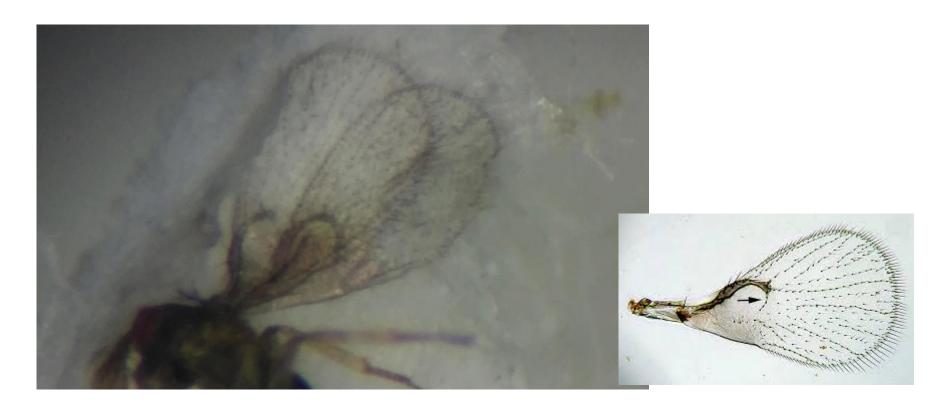


Scelionidae



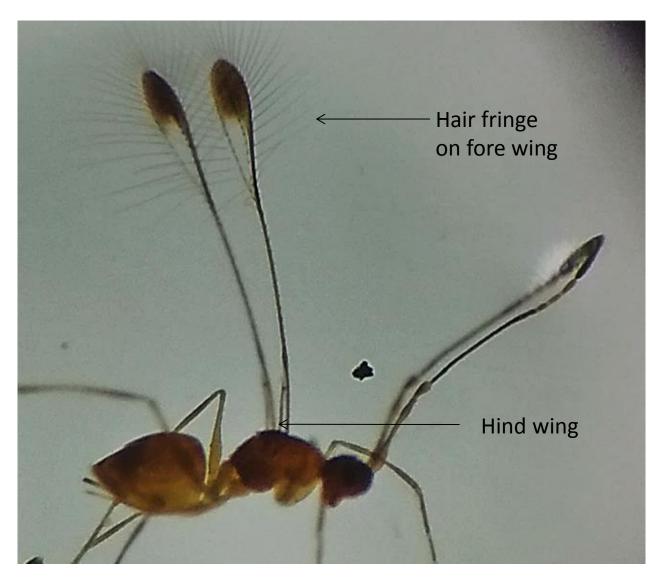
but the insects are generally black, highly sculpted and usually small (1-2mm)

Trichogrammatidae



Whole insect < 0.5mm. Hairs on wing in lines

Mymaridae



Tiny insects, often called fairy flies, (<1mm) with hind wings often very reduced and fore wings with a fringe of long hairs

Platygastridae



Generally very small insects with no venation.
Antennae often appear folded with a long scape

Platygastridae (Inostemma)



Inostemma is unique in that the ovipositor is retracted into the 'horn'

Resources

- RES out of print publications, Volume 8; keys to several groups but a bit out of date.
- Braconidae; Keys to the Insects of the European part of the USSR
- Pteromalidae: Graham The Pteromalidae of North Western Europe (downloadable 969 pages)
- Some more recent publications;
- Ichneumonoidea; Ichneumonid wasps, their classification and Biology, Broad, Shaw and Fitton
- Banchini; J P Brock. The Banchine wasps of the British Isles
- Many keys to individual genera can be found on the internet.