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Bibliography of the family Braconidae
(Hymenoptera: Ichneumonoidea)
(1964-2003)

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Bibliography of the family Braconidae (Hymenoptera: Ichneumonoidea) (1964-2003)

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Key words: Insecta; Hymenoptera; Braconidae; bibliography.

A bibliography of the family Braconidae/Hymenoptera: Ichneumonidae is given for the period 1964-2003. It is an addition to Shenefelt's bibliography (1965), which covers the period 1785-1963. In total 10,436 references are listed.

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Preface

The Braconidae constitute one of the most species-rich families of insects. Although tropical faunas are still relatively poorly understood at the species level, the third author by experience agrees with a rough minimum estimate of 120,000 species worldwide as an extrapolation from the current described number of 17,532 species (up to early 2005; data from TAXAPAD catalogue on Ichneumonoidea) in over 1,000 genera. Among extant groups, the sister group of the Braconidae is the Ichneumonidae, an equally sized group (Sharkey & Wahl, 1992; Quicke et al. 1999). The family appears to date from early Cretaceous (assuming *Eobracon* is properly assigned to family - Rasnitsyn, 1983; Whitfield, 2002), diversifying extensively in the mid to late Cretaceous and early Tertiary, when flowering plants and their associated holometabolous herbivores, the main hosts for braconid parasitoids, radiated (Basibuyuk et al., 1999; Quicke et al., 1999; Belshaw et al., 2000; Whitfield, 2002). The species richness of the family is matched by a morphological diversity virtually unrivalled among the Hymenoptera. They range in size from approximately 1 mm in length to 3-4 cm (not counting the ovipositor, which can be up to 10 times as long as the body).

Some of the groups are parts of extensive Müllerian mimicry complexes (Quicke, 1986), and exhibit striking colour patterns (some of which are recurrent within regions), while others are among the most inconspicuous of Hymenoptera. The braconids display a bewildering array of wing venation patterns and body forms to stymie the beginning student. Female external genitalia (ovipositor) vary considerably intraspecifically and are widely used for species discrimination.

Biological characteristics

Nearly all braconids are primary parasitoids of other insects, especially upon the larval stages of Coleoptera, Diptera, and Lepidoptera but also including some hemimetabolous insects (aphids, Heteroptera, Embiidina). As parasitoids they almost invariably kill their hosts, although a few only cause their hosts to become sterile and less active. Both external and internal parasitoids are common in the family, and the latter forms often display elaborate physiological adaptations for enhancement of larval survival within host insects, including the use of endosymbiotic (poly-DNA) viruses for compromising host immune defenses (Stoltz & Vinson, 1979; Stoltz, 1986; Whitfield, 1990; Beckage, 1993; Stoltz & Whitfield, 1992; Whitfield, 2002; Whitfield & Asgari, 2003). Early larval development in braconids has



Fig. 1. *Coeloides filiformis* Ratzeburg (Braconidae: Braconinae).

also yielded surprises, such as the discovery of relatively closely related genera that differ in such important aspects as syncytial versus holoblastic cleavage, normally characterizing major animal phyla (Grbic & Strand, 1998; Grbic, 2000)! Parasitism of adult insects (especially of Hemiptera and Coleoptera) is also known, and members of three subfamilies (Mesostoinae, Rhyssalinae and Doryctinae) form galls on plants (Infante et al., 1995; Austin & Dangerfield, 1998). Several excellent general reviews of braconid biology are available (Matthews, 1974; Shaw & Huddleston, 1991; Shaw, 1995; Wharton, 1993).

Discussion of phylogenetic relationships

Early attempts to explore the phylogeny of the major groups of Braconidae (e.g., Tobias, 1967; van Achterberg, 1984) were largely intuitive. Quicke & van Achterberg (1990) made the first large-scale effort to estimate braconid phylogeny using a large data set of morphological characters, and computer-assisted parsimony analysis. Although aspects of this study have been in dispute (Wharton et al., 1992; van Achterberg & Quicke, 1992), it has stimulated a number of further attempts at resolving the phylogeny of subset groups of the Braconidae, using morphology as well as molecular data (e.g. Belshaw & Quicke, 1997; Whitfield, 1997; Belshaw et al., 1998; Dangerfield et al., 1999; Dowton et al., 1998; Dowton, 1999; Mardulyn & Whitfield, 1999; Quicke & Belshaw, 1999; Quicke et al., 1999; Belshaw et al., 2000; Kambhampati et al., 2000; Sanchis et al., 2000; Belshaw et al., 2001; Dowton et al., 2002; Whitfield et al., 2002; Chen et al., 2003). The results from these recent studies should be used as a provisional backbone for the ongoing morphological and molecular phylogenetic studies.

Classification

The higher classification of the Braconidae has been a matter of much dispute. Approximately 40 subfamilies are generally recognized, several of them newly discovered within the last 15 years (Mason, 1983; Quicke, 1987; Whitfield

& Mason, 1994). Several subfamilies (e.g., Aphidiinae, Alysiinae, Apozyginae) have at one time or another been recognized as separate families. In general there is agreement on the basic subfamily or tribal groupings, with the exception of the "hormiine" and "exothecine" groups of genera (Whitfield, 1992; Quicke, 1993; Wharton, 1993), but disagreement on the ranking or inclusiveness of some groups, since the phylogenies of the subfamilies are not yet robust. There is a perception that the number of recognized subfamilies has become inflated, while the tribal rank has been underutilized. An attempt has been made to address this problem (Wharton, 2001), but requires further phylogenetic testing.

Identification guides

Keys to the world subfamilies and general introductions to the literature are available in van Achterberg (1993) and Sharkey (1993). A new manual to the genera of the New World has been produced (Wharton et al., 1997 - Spanish version 1998), including individual subfamily chapters contributed by a number of the world's braconid specialists. Interactive versions of the keys in this manual are available online; van Achterberg (1997) has published the CD-ROM Braconidae: An illustrated key to all subfamilies.

Bibliography of Braconidae

The publication of Roy Shenefelt's catalogue (Shenefelt, R.D., 1965. A contribution towards knowledge of the world literature regarding Braconidae (Hymenoptera: Braconidae). Beiträge zur Entomologie 15: 243-500) was a milestone in the bibliographical knowledge of the family Braconidae. Over 8,000 titles and references to the literature on Braconidae between 1758 till 1963 were included. The first author attempted to make an up-date; this was augmented by additional references present in the TAXAPAD database made by the second author. It resulted in a list of 10,431 titles concerning Braconidae for the period 1964-2003. Peculiar is the rapid growth of the amount of papers in the period covered by this bibliography. It quadrupled from about 100 papers per year in the sixties to about 400 papers in the nineties (fig. 2).

This list is published on CD-ROM to make it accessible to all workers on Braconidae, also those who can not afford to buy the strongly recommended interactive TAXAPAD world catalogue on Ichneumonidea (Yu, D.S., van Achterberg, K. (Braconidae) & Horstmann, K. (Ichneumonidae), 2005. Ichneumonidea. Taxapad Biological Taxonomical Interactive CD-ROM), which appeared this year. The bibliography on Braconidae published here is useful also when the interactive catalogue is available because it makes the titles available in another format and can be searched for taxa and authors in another way. The authors hope that this bibliography will facilitate and probably augment the research on Braconidae.

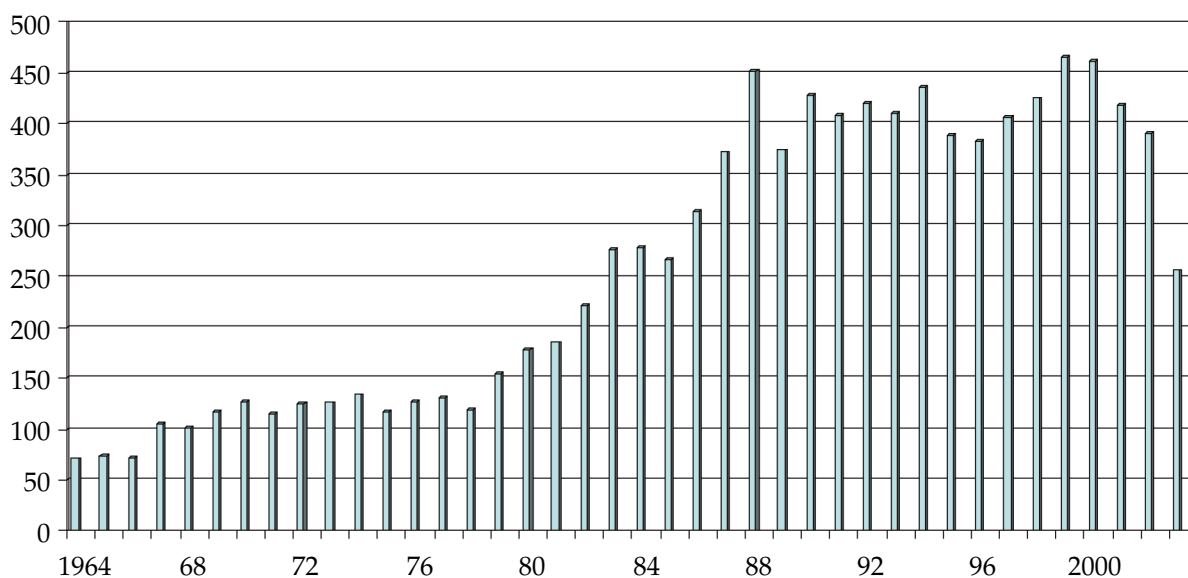


Fig. 2. Publications on Braconidae 1964-2003.

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