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Revision of the Western Palaearctic species of the genus *Dinotrema* Foerster, 1862 (Hymenoptera, Braconidae, Alysiniinae)

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ABSTRACT

The first comprehensive revision of the Western Palaearctic species of the genus *Dinotrema* Foerster, 1862 is provided. 174 species of this genus are redescribed and illustrated. Ten species are described as new, viz, *D. acompressum* sp. nov., *D. cahitum* sp. nov., *D. collybiae* sp. nov., *D. digitatum* sp. nov., *D. glabrیدهum* sp. nov., *D. helote* sp. nov., *D. lepiotae* sp. nov., *D. norwegicum* sp. nov., *D. oxybellum* sp. nov. and *D. torpi* sp. nov. The following new combinations are suggested: *Dinotrema adventum* (Fischer), comb. nov., *D. aurelianum* (Fischer), comb. nov., *D. cetiusmonte* (Fischer), comb. nov., *D. converginerve* (Fischer), comb. nov., *D. intermissum* (Fischer), comb. nov., *D. leptocorne* (Fischer), comb. nov., *D. longicarinatum* (Fischer), comb. nov., and *D. thurnense* (Fischer), comb. nov. The following names are synonymised: *Dinotrema naeviformis* (Fischer) with *D. costulatum* (Thomson), *Dinotrema aequale* Tobias with *D. tarbagataicum* Tobias, *D. alua* (Stelfox et Graham) with *D. tauricum* (Telenga), *D. isometricum* (Fischer) with *D. cruciatum* (Fischer), *D. isosoma* (Fischer) with *D. cruciforme* (Fischer), and *D. ovalisignum* (Fischer) with *D. catharinae* (Fischer) (syn. nov.). A key to all Western Palaearctic species of *Dinotrema* is provided for the first time.

Key words: Braconidae, Alysiinae, *Dinotrema*, key, new species

INTRODUCTION

Although with substantially fewer described species than the sister family, Ichneumonidae (Hymenoptera, Apocrita), Braconidae is still one of the most species-rich families with approximately 19,200 (Aguilar *et al.* 2013) recorded species around the world. The majority of braconid species are primary parasitoids of the immature stages of Lepidoptera, Coleoptera and Diptera (Tobias 1967; Sharkey 1993). During immature stages, they develop on or inside the body of their hosts (almost exclusively other insects), hosts mainly with complete metamorphosis (Holometabola) or (rarely) with a simple metamorphosis (Hemimetabola). Two biological distinctions are important in Braconidae, namely their classification as idiobiont or koinobiont parasitoids. Most are endoparasitic koinobionts (usual in non-cyclostome braconids), although there is a significant number of ectoparasitic idiobionts (only known from the cyclostome clade of Braconidae).

Braconidae are important regulators of predominantly phytophagous insect populations (LaSalle & Gauld 1992). Some braconid species are economically significant with their potential for pest control (Elpino-Campos *et al.* 2007). These wasps have serious ecological interest because of their role in regulating populations of phytophagous insects, causing a direct effect on host species population sizes and indirect effects on the diversity and survival of host plants (La Salle & Gauld 1992; Torezan-Silingardi 2011).

There are two major phylogenetic lineages within the Braconidae, namely cyclostomes and non-cyclostomes. Within the cyclostome lineage, two subfamilies, Alysiinae and Opiinae, are relatively isolated because of their close phylogenetic relationship, great diversity, and peculiar biological features (Griffiths 1964; Achterberg 1983; Gimeno *et al.* 1997; Belshaw *et al.* 1998; Zaldivar-Riverón *et al.* 2006).

The subfamily Alysiinae is a monophyletic group on the basis of such distinctive apomorphic characters as the shape and position of the exodont mandibles, the total loss of the occipital and prepectal carinae, and koinobiont specialisation on Diptera-Cyclorrapha, and this monophyly has been corroborated by molecular phylogenetic studies (Gimeno *et al.* 1997; Zaldivar-Riverón *et al.* 2006). About 2000 species and 104 genera have been described worldwide within Alysiinae (Yu *et al.* 2012), which is divided into two large and polymorphic tribes, Alysiini and Dacnusiini (Shenefelt 1974, Yu *et al.* 2005). Griffiths (1964, 1966a, 1966b, 1968a, 1968b, 1984) considered the tribe Dacnusiini to be monophyletic. On the other hand, the Alysiini is possibly paraphyletic or even polyphyletic (Wharton 2002). Morphologically, these two tribes are mainly distinguished by the presence (Alysiini) or absence (Dacnusiini) of the fore wing vein cuqu 2 (r-m or second radiomedial); accordingly Alysiini has three submarginal (radiomedial) cells while Dacnusiini have only two.

Summarising host-parasitoid relationships, Alysiini are abundant parasitoids of Diptera-Cyclorrapha hosts, often in humid habitats and ephemeral substrates. In contrast, Dacnusiini are almost exclusively specialized on leaf and stem miners of the families Agromyzidae, Ephydriidae and Chloropidae. Whilst Alysiini are found in almost all zoogeographical regions of the world, the Dacnusiini are predominantly found in the temperate and boreal regions of the Northern Hemisphere.

Despite the vast literature on this subfamily, its generic classification is quite imperfect and complicated. Griffiths (1964, 1966a, 1966b, 1968a, 1968b, 1984) formed the generic conceptions in the tribe Dacnusiini, while

wide. Lower tooth wider than upper tooth. Antennae 14-segmented. First flagellar segment 3.8–4.0 times as long as its apical width. Middle flagellar segments 2.0 times as long as their width. Mesosoma in lateral view 1.05–1.10 times as long as high. Mesoscutum 1.10–1.15 times as long as its maximum width. Notauli mainly absent. Mesoscutal pit present, elongated. Prescutellar depression without lateral carinae. Sternaulus (precoxal suture) present, not reaching anterior and posterior margins of mesopleuron. Posterior mesopleural furrow smooth. Propodeum smooth, with short median longitudinal carina, with emerging carinae and not reaching propodeal edges. Propodeal spiracles relatively small. Hind femur 4.0 times as long as its maximum width. First metasomal tergite 1.5 times as long as its apical width, almost smooth with fine striation. Ovipositor 2.0 times as long as first tergite, shorter than metasoma, 1.35–1.40 times as long as hind femur. Main colour brown and dark brown.

Comparative diagnosis. This species resembles *D. longicarinatum* Fischer, *D. incarinatum* (Fischer) and *D. significarium* (Fischer). *Dinotrema zimmermannae* differs from *D. longicarinatum* in having the mandible 1.00–1.05 times as long as wide (1.2 times in *D. longicarinatum*), first flagellar segment 3.8–4.0 times as long as wide (3.0 times in *D. longicarinatum*), mesoscutal pit elongated (rounded in *D. longicarinatum*), and first metasomal tergite 1.5 times as long as its apical width and almost smooth (2.0 times and striate in *D. longicarinatum*). On the other hand, *D. zimmermannae* differs from *D. incarinatum* in having the mandible 1.00–1.05 times as long as wide (1.6 times in *D. incarinatum*), middle flagellar segments 2.0 times as long as wide (2.3–2.5 times in *D. incarinatum*), sternaulus (precoxal suture) not reaching anterior margin of mesopleuron (reaching in *D. incarinatum*), and first metasomal tergite 1.5 times as long as its apical width (1.75 times in *D. incarinatum*). Finally, *D. zimmermannae* differs from *D. significarium* in having the mandible 1.00–1.05 times as long as wide (1.25 times in *D. significarium*), first flagellar segment 3.8–4.0 times as long as wide (2.8 times in *D. significarium*), hind femur 4.0 times as long as its maximum width (4.5 times in *D. significarium*), and first metasomal tergite 1.5 times as long as its apical width (2.0 times in *D. significarium*).

Distribution. Spain.

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REFERENCES

- Achterberg, C. van (1983) Revisionary notes on the genera *Dapsilarthra* auct. and *Mesocrina* Foerster (Hymenoptera: Braconidae: Alysiniinae). *Tijdschrift voor entomologie*, 126, 1–24.
- Achterberg, C. van (1988a) Parallelisms in the Braconidae (Hymenoptera) with special reference to the biology. In: Gupta, V.K. (Ed.), *Advances Parasitic Hymenoptera Research*. E.J. Brill, Leiden, pp. 85–115.
- Achterberg, C. van (1988b) The genera of the *Aspilota*-group and some descriptions of fungicolous Alysini from the Netherlands (Hymenoptera: Braconidae: Alysiniinae). *Zoologische Verhandelingen Leiden*, 247, 1–88.
- Achterberg, C. van & Aguilar, F. (2009) Additions to the fauna of Braconidae from Madeira and Selvagens Islands, with the description of five new species (Hymenoptera: Braconidae: Homolobinae, Alysiniinae, Opiinae). *Zoologische Mededelingen Leiden*, 83 (22), 777–797.

- Aguiar, A.P., Deans, A.R., Engel, M.S., Forshage, M., Huber, J.T., Jennings, J.T., Johnson, N.F., Lelej, A.S., Longino, J.T., Lohrmann, V., Mikó, I., Ohl, M., Rasmussen, C., Taeger, A. & Yu, D.S.K. (2013) Order Hymenoptera Linnaeus, 1758. In: Zhang, Z.-Q. (Ed.), *Animal Biodiversity: An Outline of Higher-level Classification and Survey of Taxonomic Richness* (Addenda 2013). *Zootaxa*, 3703 (1), 1–82.
<http://dx.doi.org/10.11646/zootaxa.3703.1.12>
- Belokobylskij, S.A. (2002) Eastern Palaearctic species of the braconid wasp genus *Synaldis* Förster (Hymenoptera, Braconidae, Alysiinae). Species without mesoscutal pit. *Entomological Review*, 82 (4), 404–423.
- Belokobylskij, S.A. (2004a) Eastern Palaearctic species of the braconid wasp genus *Synaldis* Förster (Hymenoptera, Braconidae, Alysiinae). Species with mesoscutal pit: I. *Entomological Review*, 84 (2), 191–215.
- Belokobylskij, S.A. (2004b) Eastern Palaearctic species of the braconid wasp genus *Synaldis* Förster (Hymenoptera, Braconidae, Alysiinae). Species with mesoscutal pit: II. *Entomological Review*, 84 (8), 935–945.
- Belokobylskij, S.A. (2005) Eastern Palaearctic species of the parasitic wasps of the genus *Aspilota* Foerster (Hymenoptera, Braconidae, Alysiinae). Species with developed mesoscutal pit. *Entomologicheskoe Obozrenie*, 84 (3), 610–641. [in Russian].
- Belokobylskij, S.A. & Tobias V.I. (2007) Subfamily Alysiinae. Group of genera close to *Aspilota*. In: Lelej, A.S. (Ed.), *Key to insects of the Russian Far East. Neuropteroidea, Mecoptera, Hymenoptera*, 4 (5), pp. 9–133.
- Belshaw, R., Fitton, M., Herniou, E., Gimeno, C. & Quicke, D.L.J. (1998) A phylogenetic reconstruction of the Ichneumonoidea (Hymenoptera) based on the D2 variable region of 28S ribosomal RNA. *Systematic Entomology*, 23, 109–123.
<http://dx.doi.org/10.1046/j.1365-3113.1998.00046.x>.
- Berry, J.A. (2007) Alysiinae (Insecta: Hymenoptera: Braconidae). *Fauna of New Zealand*, 58, 3–94.
- Bhat, S. (1979) Studies on the genus *Aspilota* Foerster (Hymenoptera: Braconidae). *Oriental Insects*, 13(3–4), 365–381.
<http://dx.doi.org/10.1080/00305316.1979.10433630>
- Broad, G.R., Shaw, M.R. & Godfray, H.C.J. (2012) Checklist of British and Irish Braconidae (Hymenoptera). Available from: <http://www.nhm.ac.uk/resources-rx/files/braconidae-checklist-for-web-34139.pdf> (accessed 17 September 2014).
- Brues, C.T. (1907) Notes and descriptions of North American parasitic Hymenoptera V. *Bulletin of the Wisconsin Natural History Society*, 5, 150–161.
- Buckingham, G.R. & Sharkey, M.J. (1988) Abdominal exocrine glands in Braconidae (Hymenoptera). In: Gupta, V.K. (Ed.), *Advances in parasitic Hymenoptera Research*. E.J.Brill, Leiden, pp. 199–242.
- Docavo, I., Tormos, J. & Fischer, M. (2006) *Bracónidos de España* (Hym., Braconidae). Patronato Valenciano de Zoología "Ignacio Docavo", Valencia, 367 pp.
- Elpino-Campos, A., Del-Claro, K. & Prezoto, F. (2007) Diversity of social wasps (Hymenoptera: Vespidae) in Cerrado fragments of Uberlandia, Minas Gerais state, Brazil. *Neotropical Entomology*, 36, 685–692.
<http://dx.doi.org/10.1590/s1519-566x2007000500008>
- Fischer, M. (1962) Das Genus *Synaldis* Foerster. *Mitteilungen aus dem Zoologischen Museum in Berlin*, 38, 1–21.
<http://dx.doi.org/10.1002/mmzn.4830380102>
- Fischer, M. (1963) Neue Zuchtergebnisse von Braconiden. *Zeitschrift für Angewandte Zoologie*, 50, 195–214.
- Fischer, M. (1966) Studien über Alysiinae (Hymenoptera, Braconidae). *Annalen des Historischen Museums in Wien*, 69, 177–205.
- Fischer, M. (1967) Revision der burgenländischen Arten der Gattungen *Synaldis*, *Aphaereta* und *Alysia* (Hymenoptera, Braconidae, Alysiinae). *Wissenschaftliche Arbeiten aus dem Burgenland*, 38, 92–135.
- Fischer, M. (1969a) Die Nearktischen *Aspilota*-Arten der Sektion B (Hymenoptera: Braconidae). *Proceedings of the Entomological Society of Washington*, 71 (3), 361–368.
- Fischer, M. (1969b) Die Nearktischen Arten der *Aspilota columbiana*-Gruppe und der *Aspilota smithi*-Gruppe. *Redia*, 51, 187–209.
- Fischer, M. (1969c) Revision der nearktischen *Aspilota* Arten der *signifrons*-Gruppe (Hymenoptera, Braconidae, Alysiinae). *Sitzungsberichte der Österreichischen Akademie der Wissenschaften Mathematisch Klasse I*, 178, 243–259.
- Fischer, M. (1969d) Die nearktischen *Aspilota*-Arten der *peritoliata*-Gruppe (Hymenoptera, Braconidae, Alysiinae). *Bolletino del Laboratorio di Entomologia Agraria "Filippo Silvestri" Portici*, 27, 55–78.
- Fischer, M. (1970) Über die Alysiini des Tiroler Hochgebirges (Hymenoptera, Braconidae). *Berichte des naturwissenschaftlich-medizinischen Vereins in Innsbruck*, 58, 323–342.
- Fischer, M. (1971) Revision der nearktischen *Aspilota*-Arten der Sektion D und Ergänzungen zu anderen Arten-gruppen. *Annalen des Naturhistorischen Museums in Wien*, 74, 91–127.
- Fischer, M. (1972a) Erste Gliederung der palaarktischen *Aspilota*-Arten (Hym., Braconidae, Alysiinae). *Polskie Pismo entomologiczne*, 42, 323–459.
- Fischer, M. (1972b) *Hymenoptera Braconidae* (Opiinae I) (Paläarktische Region). *Das Tierreich*, 91, 1–620.
- Fischer, M. (1973a) *Aspilota*-Wespen aus der weiteren Umgebung von Admont (Hym., Braconidae, Alysiinae). *Mitteilungen der Abteilung für Zoologie und Botanik am Landesmuseum Joanneum*, 2, 137–167.
- Fischer, M. (1973b) Einige Proben aus den Otztaler Alpen als Beispiel für die Formenvielfalt bei der Gattung *Aspilota* Foerster (Hym., Braconidae, Alysiinae). *Berichte des naturwissenschaftlich-medizinischen Vereins in Innsbruck*, 60, 95–129.
- Fischer, M. (1973c) Alysiini aus dem Land Salzburg, gesammelt von Herrn Dr. Paul Peter Babyi (Hym., Braconidae). *Annali*

- del Museo Civico di Storia Naturale Giacomo Doria, 79, 235–270.
- Fischer, M. (1973d) Neue *Aspilota*-Arten aus der Steiermark (Hymenoptera, Braconidae, Alysiinae). *Verhandlungen der Zoologisch–Botanischen Gesellschaft Wien*, 113, 103–120.
- Fischer, M. (1974a) *Aspilota*-Wespen aus Niederösterreich, insbesondere solche der *signifrons*-Gruppe (Hymenoptera, Braconidae, Alysiinae). *Frustula Entomologica*, 12 (4), 1–27.
- Fischer, M. (1974b) Einige neue *Aspilota*-Arten aus Niederösterreich (Hymenoptera: Braconidae, Alysiinae). *Folia Entomologica Hungarica*, 27, 59–71.
- Fischer, M. (1974c) Studien an Alysiinen-Typen (Hymenoptera, Braconidae, Alysiinae). *Zeitschrift der Arbeitsgemeinschaft Österreichischer Entomologen*, 25, 47–51.
- Fischer, M. (1975a) *Aspilota*-Arten, gezogen aus Phoriden (Hymenoptera, Braconidae, Alysiinae). *Bollettino del Laboratorio di Entomologia Agraria 'Filippo Silvestri' Portici*. 31 (1974), 253–267.
- Fischer, M. (1975b) Alysiinen-Wespen aus der Umgebung von Huttenberg in Karnten (Hymenoptera, Braconidae, Alysiinae). *Carinthia*, 2, 303–342.
- Fischer, M. (1976) Erste Nachweise von *Aspilota*-Wespen im Burgenland (Hymenoptera, Braconidae, Alysiinae). *Annalen des Naturhistorischen Museums in Wien*, 80, 343–410.
- Fischer, M. (1977) Die Opiinen und Alysiinen einer Ausbeute aus Osttirol (Insecta, Hymenoptera, Braconidae). *Berichte des naturwissenschaftlich-medizinischen Vereins in Innsbruck*, 64, 147–154.
- Fischer, M. (1985) Eine neue *Aspilota*-Art aus Bayern. *Entomofauna*, 6 (8), 233–238.
- Fischer, M. (1993a) Zur Formenvielfalt der Kieferwespen der Alten Welt: Über die Gattungen *Synaldis* Foerster, *Trisynaldis* Fischer und *Kritscherysia* Fischer gen. nov. (Hymenoptera, Braconidae, Alysiinae). *Annalen des Naturhistorischen Museums in Wien*, 94–95 (B), 451–490.
- Fischer, M. (1993b) Eine neue Studie über Buckelfliegen–Kieferwespen: *Synaldis* Foerster und *Dinotrema* Foerster (Hymenoptera, Braconidae, Alysiinae). *Linzer Biologische Beiträge*, 25 (2), 565–592.
- Fischer, M. (1995) Über die altweltlichen *Orthostigma*-Arten und Ergänzungen zur *Aspilota*-Gattungsgruppe (Hymenoptera, Braconidae, Alysiinae). *Linzer Biologische Beiträge*, 27 (2), 669–752.
- Fischer, M. (1996) Beitrag zur Kenntnis der Arten der *Aspilota*-Gattungsgruppe in Spanien (Hymenoptera, Braconidae, Alysiinae, Alysiini). *Linzer Biologische Beiträge*, 28 (2), 659–673.
- Fischer, M. (2003) Ein Beitrag zur Kenntnis der Gattungen *Synaldis* Foerster und *Adelphenaldis* Fischer, gen. nov. (Hymenoptera, Braconidae, Alysiinae). *Linzer Biologische Beiträge*, 35 (1), 19–74.
- Fischer, M. (2007) Neue Arten der Gattung *Asobara* Foerster aus drei verschiedenen Erdteilen. *Linzer Biologische Beiträge*, 39 (2), 857–875.
- Fischer, M. (2009) Neue Arten der Gattungen *Dinotrema* Foerster, 1862, *Aspilota* Foerster, 1862 und *Eudinostigma* Tobias, 1986 (Insecta: Hymenoptera: Braconidae: Alysiinae: Alysiini). *Annalen des Naturhistorischen Museums in Wien, Serie B (Botanik und Zoologie)*, 110, 103–127.
- Fischer, M., Tormos, J., Pardo, X. & Asis, J.D. (2008a) New citations of Alysiini from Spain, with a description of *Dinotrema mediocornis hispanicum* nov. ssp. and of the females of *Aspilota inflatinervis* and *Synaldis azorica* (Hymenoptera, Braconidae, Alysiinae). *Linzer Biologische Beiträge*, 40 (2), 1449–1466.
- Fischer, M., Tormos, J., Pardo, X. & Asis, J.D. (2008b) Descriptions of adults, preimaginal phases, and venom apparatus of a new species of *Aspilota* Foerster from Spain (Hymenoptera, Braconidae). *Zoological Studies*, 47 (3), 247–257.
- Fischer, M., Sullivan, G.T., Karaca, I. & Ozman-Sullivan, S.K. (2014). A new species of the genus *Dinotrema* Foerster (Hymenoptera, Braconidae, Alysiinae) from Turkey. *Turkish Journal of Zoology*, 1–12.
<http://dx.doi.org/10.3906/zoo-1401-22>
- Foerster, A. (1862) Synopsis der Familien und Gattungen der Braconiden. *Verhandlungen des Naturhistorischen Vereins der Preussischen Rheinlande und Westfalens*, 19, 225–288.
- Francés, V.L. & Jiménez, R. (1989) New data about the Alysiini (Braconidae, Alysiinae) in Spain. *Boletín Asociación Española de Entomología*, 13, 201–212.
- Gimeno, C., Belshaw, R. & Quicke, D.L.J. (1997) Phylogenetic relationships of the Alysiinae/Opiinae (Hymenoptera: Braconidae) and the utility of cytochrome b, 16S and 28S D2 rRNA. *Insect Molecular Biology*, 6, 273–284.
<http://dx.doi.org/10.1046/j.1365-2583.1997.00181.x>
- Goidanich, A. (1936) Materiali per lo studio degli Imenotteri Braconidi. IV. *Bollettino dell'Istituto di Entomologia della Università degli Studi di Bologna*, 8, 197–221.
- Griffiths, G.C.D. (1964) The Alysiinae (Hym., Braconidae) parasites of the Agromyzidae (Diptera). I. General questions of taxonomy, biology and evolution. *Beiträge zur Entomologie*, 14, 823–914.
- Griffiths, G.C.D. (1966a) The Alysiinae (Hym., Braconidae) parasites of the Agromyzidae (Diptera). II. The parasites of *Agromyza* Fallén. *Beiträge zur Entomologie*, 16, 551–605.
- Griffiths, G.C.D. (1966b) The Alysiinae (Hym. Braconidae) parasites of the Agromyzidae (Diptera). III. The parasites of *Paraphytomyza* Enderlein, *Phytomyza* Hendel and *Phytomyza* Fallén. *Beiträge zur Entomologie*, 16, 775–951.
- Griffiths, G.C.D. (1968a) The Alysiinae (Hym. Braconidae) parasites of the Agromyzidae (Diptera). V. The parasites of *Liriomyza* Mik and certain small genera of Phytomyzinae. *Beiträge zur Entomologie*, 18, 5–62.
- Griffiths, G.C.D. (1968b) The Alysiinae (Hym., Braconidae) parasites of the Agromyzidae (Diptera). VII. The parasites of *Cerodontha* Rondani s.l. *Beiträge zur Entomologie*, 18, 63–152.

- Griffiths, G.C.D. (1984) The Alysiinae (Hym., Braconidae) parasites of the Agromyzidae (Diptera). VII. Supplement. *Beiträge zur Entomologie*, 34, 343–362.
- Haliday, A.H. (1833) An essay on the classification of the parasitic Hymenoptera of Britain, which correspond with the Ichneumonones minuti of Linnaeus. *Entomological Magazine*, 1 (iii), 259–276, 333–350.
- Haliday, A.H. (1838) Essay on parasitic Hymenoptera. *Entomological Magazine*, 5 (3), 209–249.
- Hedqvist, K.J. (1972) Two new species of *Aspilota* Först. (Hym., Ichneumonidea, Braconidae, Alysiinae). *Entomologisk Tidskrift*, 93 (4), 216–219.
- Königsmann, E. (1969) Beitrag zur Revisión der Gattung *Orthostigma* (Hymenoptera, Braconidae). *Deutsche Entomologische Zeitschrift*, 16, 1–53.
<http://dx.doi.org/10.1002/mmnd.4810160102>
- Königsmann, E. (1972) Zur Kenntnis verschiedener Gattungen der Alysiinae nebst Beschreibung der neuen Gattung *Paraorthostigma* (Hymenoptera, Braconidae). *Deutsche Entomologische Zeitschrift*, 19 (I–III), 21–30.
<http://dx.doi.org/10.1002/mmnd.19720190105>
- LaSalle, J. & Gauld, I.D. (1992) Parasitic Hymenoptera and the biodiversity crisis. *Redia*, 74 (3), 315–334.
- Lozan, A., Belokobylskij, S., Achterberg, C. van & Monaghan, M. (2010) Diversity and distribution of Braconidae, a family of parasitoid wasps in the Central European peatbogs of South Bohemia, Czech Republic. *Journal of Insect Science*, 10, 16.
<http://dx.doi.org/10.1673/031.010.1601>
- Marshall, T.A. (1872) *A catalogue of British Hymenoptera; Chrysididae, Ichneumonidae, Braconidae, and Evanidae*. A. Napier, The Entomological Society of London, London, 136 pp.
- Marshall, T.A. (1895) A monograph of the British Braconidae Part VI. XXIV. Alysiides cont. *Transactions of the Royal Entomological Society of London*, 1895, 363–398.
<http://dx.doi.org/10.1111/j.1365-2311.1895.tb03286.x>
- Marshall, T.A. (1896) Les Braconides. In: Andre, E. (Ed.), '*Species des Hymenopteres d'Europe et d'Algerie.*', Tome 5, pp. 118. [Gray 1891]
<http://dx.doi.org/10.5962/bhl.title.10281>
- Munk, T., Peris-Felipo, F.J. & Jiménez-Peydró, R. (2013a) New Western Palaearctic *Dinotrema* species with mesoscutal pit and only medially sculptured propodeum (Hymenoptera, Braconidae, Alysiinae). *Zookeys*, 260, 61–76.
<http://dx.doi.org/10.3897/zookeys.260.4084>
- Munk, T., Peris-Felipo, F.J. & Jiménez-Peydró, R. (2013b) New European species of the genus *Dinotrema* Foerster, 1862 with extensively sculptured propodeum (Hymenoptera, Braconidae, Alysiinae). *Annals Zoologici*, 63 (1), 123–141.
<http://dx.doi.org/10.3161/000345413x666174>
- Nees von Esenbeck, C.G. (1812) Ichneumonides Adsciti, in Genera et Familias Divisi. *Magazin Gesellschaft Naturforschender Freunde zu Berlin*, 6 (1812), 183–221.
- Nees von Esenbeck, C.G. (1834) *Hymenopterorum Ichneumonibus affinium monographiae, genera Europaea et species illustrantes*. 1. Stuttgartiae et Tubingae, 320 pp.
<http://dx.doi.org/10.5962/bhl.title.26555>
- Papp, J. (1999) Braconidae (Hymenoptera from Mongolia, XIII: Alysiinae. *Acta Zoologica Academiae Scientiarum Hungaricae*, 45 (3), 221–246.
- Papp, J. (2000) Braconidae (Hymenoptera) from Mongolia, XIV: Doryctinae, Helconinae, Meteorinae, Euphorinae, Blacinae, Opiinae and Alysiinae. *Acta Zoologica Academiae Scientiarum Hungaricae*, 46 (1), 35–52.
- Papp, J. (2001) Braconidae (Hymenoptera) from Korea XX. Alysiinae: Alysiini, *Aspilota* genus–group. *Acta Zoologica Academiae Scientiarum Hungaricae*, 47 (1), 1–13.
- Papp, J. (2003a) Braconidae (Hymenoptera) from Korea, XXI. Species of fifteen subfamilies. *Acta Zoologica Academiae Scientiarum Hungaricae*, 49 (2), 115–152.
- Papp, J. (2003b) Braconid wasps from the Cape Verde Islands (Insecta: Hymenoptera: Braconidae) 2. Doryctinae, Braconinae, Hormiinae, Rogadinae, Gnamptodontinae, Homolobinae, Opiinae, Alysiinae, Cheloninae, Adeliinae and Microgastrinae. *Faunistische Abhandlungen* (Dresden), 24, 137–167.
- Papp, J. (2005) Braconidae (Hymenoptera) from Mongolia, XVI. Subfamilies Gnamptodontinae, Brachistinae, Euphorinae, Alysiinae. *Acta Zoologica Academiae Scientiarum Hungaricae*, 51 (3), 221–251.
- Papp, J. (2007a) Braconidae (Hymenoptera) from Korea XXII. Subfamily Alysiinae. *Acta Zoologica Academiae Scientiarum Hungaricae*, 53 (1), 1–38.
- Papp, J. (2007b) Braconidae (Hymenoptera) from Greece, 6. *Notes fauniques de Gembloux*, 60 (3), 99–127.
- Papp, J. (2008) Seven new species of *Aspilota* Foerster from the Palaearctic Region (Hymenoptera: Braconidae, Alysiinae). *Annales Historico-Naturales Musei Nationalis Hungarici*, 100, 245–269.
- Papp, J. (2009a) Braconidae (Hymenoptera) from Korea, XXIII. Subfamilies Agathidinae and Alysiinae. *Acta Zoologica Academiae Scientiarum Hungaricae*, 55 (3), 235–261.
- Papp, J. (2009b) Contribution to the braconid fauna of the former Yugoslavia, V. Ten subfamilies (Hymenoptera, Braconidae). *Entomofauna*, 30 (1), 1–35.
- Papp, J. (2009c) Braconidae (Hymenoptera) from Mongolia, XVII. Eleven subfamilies. *Acta Zoologica Academiae Scientiarum Hungaricae*, 55 (2), 139–173.
- Papp, J. (2012a) A contribution to the Braconif fauna of Israel (Hymenoptera: Braconidae), 3. *Israel Journal of Entomology*,

41–42, 165–219.

- Papp, J. (2012b) Five new braconid species from Colombia (Hymenoptera, Braconidae). *Journal of Hymenoptera Research*, 28, 67–84.
<http://dx.doi.org/10.3897/jhr.28.2023>
- Peris-Felipo, F.J. & Belokobylskij, S.A. (2013) *Dinotrema jimenezi* sp. nov., a new species of the genus *Dinotrema* Foerster of the group with only basomedially sculptured propodeum from Spain (Hymenoptera, Braconidae, Alysiniinae). *Biologia*, 68 (5), 979–982.
<http://dx.doi.org/10.2478/s11756-013-0239-6>
- Peris-Felipo, F.J., Belokobylskij, S.A. & Jiménez-Peydró, R. (2013a) Six new *Dinotrema* (Hymenoptera, Braconidae) from Spain, with prescutellar pit and medially sculptured propodeum. *Zootaxa*, 3694 (6), 545–564.
<http://dx.doi.org/10.11646/zootaxa.3694.6.3>
- Peris-Felipo, F.J., Belokobylskij, S.A. & Jiménez-Peydró, R. (2013b) New Spanish *Dinotrema* species with propodeum mainly sculptured or large areola (Hymenoptera, Braconidae, Alysiniinae). *Zookeys*, 297, 43–70.
<http://dx.doi.org/10.3897/zookeys.297.5228>
- Peris-Felipo, F.J., Belokobylskij, S.A. & Jiménez-Peydró, R. (2013c) *Dinotrema vitobiasi* sp. nov., a new Spanish species of the genus *Dinotrema* Foerster with only basomedially sculptured propodeum (Hymenoptera, Braconidae, Alysiniinae). *Zoosystematica Rossica*, 22 (1), 87–92.
<http://dx.doi.org/10.2478/s11756-013-0239-6>
- Peris-Felipo, F.J., Fischer, M. & Jiménez-Peydró, R. (2013d) Five new *Dinotrema* species with mesoscutal pit and medially sculptured propodeum from Spain (Hymenoptera, Braconidae, Alysiniinae). *Bulletin of Insectology*, 66 (1), 123–141.
<http://dx.doi.org/10.3897/zookeys.260.4084>
- Provancher, L. (1886) *Additions et corrections au Volume II de la Faune Entomologique du Canada*. Traitant des Hyménoptères. Québec, 475 pp.
<http://dx.doi.org/10.5962/bhl.title.46411>
- Quicke, D.L.J., Achterberg, C. van & Godfray, H.C. (1997) Comparative morphology of the venom gland and reservoir in opiine and alysiine braconid wasps (Insecta, Hymenoptera, Braconidae). *Zoologica scripta Kungl Svenska vetenskapsakademien*, 26, 23–50.
<http://dx.doi.org/10.1111/j.1463-6409.1997.tb00407.x>
- Ratzeburg, J.T.C. (1844) *Die Ichneumonen der Forstinsecten in forstlicher und entomologischer Beziehung*. Zweiter Band, Berlin, 224 pp.
<http://dx.doi.org/10.5962/bhl.title.11094>
- Ratzeburg, J.T.C. (1848) *Die Ichneumonen der Forstinsecten in forstlicher und entomologischer Beziehung*. Zweiter Band. Berlin, 238 pp.
<http://dx.doi.org/10.5962/bhl.title.11094>
- Ratzeburg, J.T.C. (1852) *Die Ichneumonen der Forstinsecten in forstlicher und entomologischer Beziehung*. Dritter Band, Berlin, 272 pp.
<http://dx.doi.org/10.5962/bhl.title.11094>
- Sharkey, M.J. (1993) Family Braconidae. In: Goulet, H. & Huber, J.T. (Eds.), *Hymenoptera of the World: An Identification Guide to Families*. Agriculture Canada, pp. 362–395.
- Sharkey, M.J. & Wharton, R.A. (1997) Morphology and terminology. In: Wharton, R.A., Marsh, P.M. & Sharkey, M.J. (Eds.), *Manual of the New World Genera of the Family Braconidae (Hymenoptera)*. International Society Hymenopterists, Washington, D.C., pp. 19–37.
- Shenefelt, R.D. (1974) Pars II. Braconidae 7. Alysiniinae. In: van der Vecht, J. & Shenefelt, R.D. (Ed.), *Hymenopterorum Catalogus (nova editio)*. The Hague, Dr. W. Junk, pp. 937–1113.
- Stelfox, A.W. (1943) On the identification of two species, *Alysia nervosa* and *Alysia fuscicornis* of Haliday (Hymenoptera: Alysiniidae). *Proceedings of the Royal Irish Academy*, 49 (B), 204–212.
- Stelfox, A.W. & Graham, M.W.R. de V. (1949) Notes on the genus *Aspilota*. *Entomologist's Monthly Magazine*, 85, 71–74.
- Stelfox, A.W. & Graham, M.W.R. de V. (1950a) On *Panerema inops* Forst. and allied species of the genus *Aspilota* (Hym., Braconidae, Alysiniinae), with descriptions of two new species. *Entomologist's Monthly Magazine*, 86, 289–293.
- Stelfox, A.W. & Graham, M.W.R. de V. (1950b) Notes of genus *Aspilota* (Hym., Braconidae, Alysiniinae) with descriptions of four new species. *Entomologist's Monthly Magazine*, 86, 9–13.
- Stelfox, A.W. & Graham, M.W.R. de V. (1951) Notes on the genus *Aspilota* (Hym., Braconidae, Alysiniinae), with descriptions of five new species. *Entomologist's Monthly Magazine*, 87, 3–7.
- Telenga, N.A. (1935) Beiträge zur Kenntnis der Tribus Alysini (Braconidae, Hymenoptera) aus USSR. *Konowia*, 14, 186–190.
- Thomson, C.G. (1895) LII. Bidrag till Braconidernas Kannedom. *Opuscula Entomologica*, 20, 2141–2339.
- Tobias, V.I. (1962) Contribution to the fauna of the subfamily Alysiniinae (Hymenoptera, Braconidae) of the Leningrad region. *Trudy Zoologicheskogo Instituta. Leningrad*, 31, 81–137.
- Tobias, V.I. (1967) A review of the classification, phylogeny and evolution of the family Braconidae (Hymenoptera). *Entomological Review*, 46 (3), 387–399.
- Tobias, V.I. (1975) Two new species and a new genus of Braconids (Hymenoptera, Braconidae, Alysiniinae) from Mongolia. *Nasekomye Mongolii* (Insects of Mongolia), 3, 306–309. [in Russian]

- Tobias, V.I. (1986) Subfam. Alysiinae. In: Medvedev G.S. (Ed.), *Opredelitel nasekomykh Evropeiskoi chasti SSSR [Key to insects of the European part of the USSR]*, 3 (5), pp. 100–231. [Nauka. Leningrad, in Russian]
<http://dx.doi.org/10.5962/bhl.title.46334>
- Tobias, V.I. (1990) Three new species alysiin-wasps (Hymenoptera, Braconidae, Alysiinae) from Vietnam. *Trudy Zoologicheskogo Instituta*, 209, 99–106. [in Russian]
- Tobias, V.I. (1995) Subfamily Alysiinae. In: Medvedev, G.S. (Ed.), *Keys to the Insects of the European Part of the URSS. Vol. III. Hymenoptera. Part V*. Science Publishers, Inc. Lebanon, pp. 156–386.
- Tobias, V.I. (1998) Alysiinae (Dacnusi) and Opiinae. In: Ler, P.A. (Ed.), *Key to insects of Russian Far East. Vol. 4. Neuropteroidea, Mecoptera, Hymenoptera. Pt 3*. Dal'nauka, Vladivostok, pp. 299–411, 558–655. [in Russian]
- Tobias, V.I. (2003a) Species of the Genus *Dinotrema* Foerster, 1862 (Hymenoptera, Braconidae, Alysiinae) without prescutellar pit and with smooth or only medially sculptured propodeum from Russia and Adjacent Territories. *Entomological Review*, 83 (3), 279–294.
- Tobias, V.I. (2003b) Contribution to the knowledge of the subgenus *Prosapha* stat. n. of the genus *Dinotrema* (Hymenoptera, Braconidae, Alysiinae). *Entomological Review*, 83 (5), 606–611.
- Tobias, V.I. (2004a) Species of the genus *Dinotrema* Foerster, 1862 (Hymenoptera, Braconidae, Alysiinae) without prescutellar pit and with a widely sculptured propodeum and short mandibles from Russia and neighboring territories. *Entomological Review*, 84 (2), 216–232.
- Tobias, V.I. (2004b) Two new species of the genus *Dinotrema* Foerster (Hymenoptera, Braconidae, Alysiinae) without prescutellar pit. *Entomological Review*, 84 (6), 673–676.
<http://dx.doi.org/10.1134/s0013873806030092>
- Tobias, V.I. (2006) Palaearctic species of the genus *Dinotrema* Foerster (Hymenoptera, Braconidae, Alysiinae) with a prescutellar pit and with long ovipositor. *Entomological Review*, 86 (3), 324–336.
<http://dx.doi.org/10.1134/s0013873806030092>
- Torezan-Silingardi, H.M. (2011) Predatory behavior of *Pachodynerus brevithorax* (Hymenoptera: Vespidae, Eumeninae) on endophytic herbivore beetles in the Brazilian tropical savanna. *Sociobiology*, 57, 181–189.
- Wesmael, C. (1837) Monographie des Braconides de Belgique (Suite.). *Nouveaux Mémoires de l'Academie Royale des Sciences et Belles-Lettres de Bruxelles*, 10, 1–68.
- Wesmael, C. (1838) Monographie des Braconides de Belgique, 4. *Nouveaux Mémoires de l'Academie Royale des Sciences et Belles-Lettres de Bruxelles*, 11, 1–166.
- Wharton, R.A. (1980) Review of New World Alysiini (Hymenoptera: Braconidae) with discussion of generic relationships within the Tribe. *University of California publications in Entomology*, 88, 1–104.
- Wharton, R.A. (1994) New genera, species, and records of New World Alysiinae (Hymenoptera, Braconidae). *Proceedings of the Entomological Society of Washington*, 96, 630–664.
- Wharton, R.A. (2002) Revision of the Australian Alysiini (Hymenoptera : Braconidae). *Invertebrate Systematics*, 16, 7–105.
- Yakovlev, E.B. & Tobias, V.I. (1992) Braconidae (Hymenoptera) parasites of fungivorous Diptera in Karelia. *Entomologica Fennica*, 3 (3), 139–148.
- Yu, D.S., Achterberg, C. van & Horstman, K. (2005) *World Ichneumonoidea 2004. Taxonomy, Biology, Morphology and Distribution [Braconidae]*. Taxapad 2005 (Scientific names for information management). Interactive electronic catalogue on CD/DVD. Vancouver. Yu D.S., Achterberg, C. van & Horstman, K. (2012) *Taxapad 2012, Ichneumonoidea 2011*. Database on flash-drive. Ottawa, Ontario, Canada.
- Zaldivar-Riverón, A., Mori, M. & Quicke, D.L.J. (2006) Systematics of the cyclostome subfamilies of braconid parasitic wasps (Hymenoptera: Ichneumonoidea): A simultaneous molecular and morphological Bayesian approach. *Molecular Phylogenetics and Evolution*, 38 (1), 130–145.
<http://dx.doi.org/10.1016/j.ympev.2005.08.006>