

## Digital supplementary material to

MOLERO-BALTANÁS, R., BACH DE ROCA, C., TINAUT, A., DIZ PÉREZ, J. & GAJU-RICART, M. 2017: Symbiotic relationships between silverfish (*Zygentoma*: Lepisma-tidae, Nicoletiidae) and ants (Hymenoptera: Formicidae) in the Western Palaearctic. A quantitative analysis of data from Spain. – Myrmecological News 24: 107-122.

**Appendix S1: *Zygentoma* hosted by ants in the Western Palaearctic region (Europe, North Africa and Macaronesian region). Tables integrate data of literature with new data generated in this work.**

In this document, two types of tables are presented:

- 1) Summary of interactions of each ant genus with various species of *Zygentoma*.
- 2) Details of interactions of each ant species with various species of *Zygentoma* (giving the references to literature and the data of the new samples studied).

These two types are condensed in a single table for those genera where only one species is reported (or where no specific identification of the ant is available).

The references included in the tables that are not in the main article are detailed at the end of this file. Before the list of references of this Appendix, an additional table (Table S1.73) includes previously published data on the associations analysed in this work.

Remarks for all tables:

Abbreviations of species of *Zygentoma* as in Table 4 of the main article.

Other abbreviations given in tables:

**Tot.:** Total number of samples studied in Spain (published or reported in this work).

**Lit est.:** Number of samples previously published and included in the statistical study made in Spain (presented in the main paper).

**Lit not incl.:** Number of samples mentioned in the literature of Western-Palaearctic *Zygentoma* and not included in the statistic study of Spain (mainly published by other authors and for other countries).

The references to Molero-Baltanás are abbreviated to Molero. The references to Bach de Roca and Gaju-Ricart are also abbreviated to Bach and Gaju, respectively.

New interactions are highlighted in the tables with bold characters and grey background.

Detailed references tables for each ant species include the name of the author(s) and the year of publication for each interaction in the literature. The number of samples included in each reference is given in brackets. Literature references not included in the statistical study of the main article are marked with an asterisk. For new data, tables of each ant species include the locality, date, number of specimens (M = males, F = females, J = juveniles) and the reference in the collection of the Universidad de Córdoba (UCO) where they are deposited. In these tables, the bold character means new interactions (reported here for the first time).

Species and genera authorities are given only when they are not mentioned in the main article.

Interactions of silverfish with ants identified at the generic level are not considered new unless there is no other reference of the silverfish with another ant species of the same genus.

**Tab. S1.1:** Numbers of the different types of interaction of *Aphaenogaster* ants with silverfish. 35 different types of interactions, 30 of them reported in Spain, nine of them new. 77 interactions from samples of Spain for statistic study (47 of them previously published), 40 additional Western-Palaearctic interactions from literature not included in statistics.

<i>Aphaenogaster</i> species	Av	Pp	Lb	Lc	Ls	Ncr	Ncu	Nd	Nf	Nh	Nl	Np	Nsp	Nw	Tot	Lit stat	Lit not incl
<i>A. dulcinea</i>		3													3	3	0
<i>A. gibbosa</i>	2	7			<b>1</b>		<b>2</b>	1		1		1	<b>1</b>	1	17	13	5
<i>A. iberica</i>		5		<b>1</b>	<b>1</b>	<b>1</b>	<b>11</b>	2		2		5	<b>1</b>	2	31	16	0
<i>A. senilis</i>		1					6	1	1	8	<b>1</b>		1		19	11	22
<i>A. subterranea</i>		1						1							2	2	1
<i>A. testaceopilosa</i>															0	0	4
<i>Aphaenogaster</i> sp.			1					1		3					5	3	8

**Tab. S1.2:** Detailed references of interactions of ants of the species *Aphaenogaster dulcinea* SANTSCHE, 1919 with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>Proateturina pseudolepisma</i> (3)	MOLERO & al. (1998b) (3)	–

**Tab. S1.3:** Detailed references of interactions of ants of the species *Aphaenogaster gibbosa* (LATREILLE, 1798) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>Atelura valenciana</i> (2)	MOLERO & al. (1998b) (2)	–
<i>P. pseudolepisma</i> (8)	MENDES (1980a)* (1); MOLERO & al. (1998b) (7)	–
<i>Lepisma saccharina</i> (1)		Orense, Petín (42° 21' N, 7° 07' W), 23-09-1989, Ref. Z1873.
<i>Neoasterolepisma curtiseta</i> (2)		Granada, Rubite, Contraviesa mountains, A-4131 road (formerly C-333), Km 32 (36° 49' N, 3° 20' W), 19-03-92, 1M, Ref. Z1014. Valencia, Montroi, road to Torís, (39° 21' N, 0° 38' W), 27-04-92, 1M + 2F together with <i>A. valenciana</i> , Ref. Z1473.
<i>N. delator</i> (1)	MOLERO & al. (1996a) (1)	–
<i>N. hesperica</i> (5)	MENDES (1980a)* (2); MENDES (1982)* (1); MENDES (1988)* (1); MOLERO & al. (1996a) (1)	–
<i>N. pallida</i> (1)	MOLERO & al. (1995b) (1)	
<i>N. spectabilis</i> (1)		Córdoba, Hornachuelos, Aljabaras, 19-11-83, 1M + 1F (as <i>N. iberica</i> in MOLERO & al. (1992), Ref. Z0464.
<i>N. wasmanni</i> (1)	MOLERO & al. (1996a) (1)	–

**Tab. S1.4:** Detailed references of interactions of ants of the species *Aphaenogaster iberica* (EMERY, 1908) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (5)	MOLERO & al. (1998b) (5)	–
<i>L. chlorosoma</i> (1)		Madrid, Olmeda de las Fuentes, road to Mondéjar (40° 21' N, 3° 10' W), 13-09-91, 1F, Ref. Z1241.
<i>L. saccharina</i> (1)		Segovia, Maderuelo to Fuentelcésped (41° 33' N, 3° 33' W), 27-8-92, 1F, Ref. Z1921.
<i>N. crassipes</i> (1)		Zaragoza, Santa Cruz del Moncayo (41° 52' N, 1° 45' W), 21-06-92, 1J together with <i>P. pseudolepisma</i> , Ref. Z1694.
<i>N. curtiseta</i> (11)		Albacete, Valdeganga, next to Júcar river (39° 08' N, 1° 45' W), 29-04-92, 1M + 1F, Ref. Z1170. Almería, Alcolea, from Berja to Ugíjar, Gádor mountains (36° 56' N, 2° 57' W), 19-03-92, 1F, Ref. Z0997. Almería, Tijola, from Purchena to Serón (37° 20' N, 2° 23' W), 16-04-92, 2M + 2F + 3J, Ref. Z0894. Almería, Vélez-Rubio, El Charche (37° 38' N, 2° 03' W), 26-10-91, 2M, Ref. Z1068. Almería, Turre, Aguas river (37° 08' N, 1° 55' W), 10-4-1992, 1J, Z0884. Granada, Lanjarón, road to Órgiva (36° 54' N, 3° 28' W), 18-03-92, 4M + 1F, Ref. Z1037. Granada, Polopos (Granada), A-4131 road (formerly C-333), Km 42.5 (36° 48' N, 3° 18' W), 19-03-92, 1M + 1F, Ref. Z0983. Guadalajara, Esplegares, road to Saelices de la Sal (40° 52' N, 2° 09' W), 24-08-92, 1F + 2J, Ref. Z1237. Madrid, San Martín de la Vega, road to Morata de Tajuña (40° 13' N, 3° 31' W), 13-09-91, 3M + 2F, Ref. Z1116 (published in MOLERO & al., 1994b as <i>Aphaenogaster</i> sp.). Murcia, Caravaca de la Cruz, road to Lorca, pine-tree forest besides Quípar river (37° 59' N, 1° 55' W), 26-10-91, 3M, Ref. Z1447. Valencia, Aras de Alpuente, road to Santa Cruz de Moya (39° 56' N, 1° 09' W), 14-05-92, 2M, Ref. Z1520.

<i>N. delator</i> (2)	MOLERO & al. (1996a) (2)	–
<i>N. hesperica</i> (2)	MOLERO & al. (1996a) (2)	–
<i>N. pallida</i> (5)	MOLERO & al. (1995b) (5)	–
<i>N. spectabilis</i> (1)		Málaga, Coín, road to Tolox (36° 40' N, 4° 47' W), 6-12-91, 1M, Ref. Z1074.
<i>N. wasmanni</i> (2)	MOLERO & al. (1996a) (2)	–

**Tab. S1.5:** Detailed references of interactions of ants of the species *Aphaenogaster senilis* (MAYR, 1853) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (2)	MOLERO & al. (1992) (1), MENDES (1992)* (1)	–
<i>N. curtiseta</i> (7)	MENDES (1980a)* (1)	Almería, Berja, Castala, 650 m (36° 53' N, 2° 57' W), 23-03-89, 1M + 1F, Ref. Z0416. Almería, Mojácar beach (37° 08' N, 1° 49' W), 10-04-92, 1M + 1F, Ref. Z0890. Cáceres, N-630, Km 547 (39° 31' N, 6° 25' W), 01-03-89, 1M + 2F, Ref. Z0785. Cáceres, Monfragüe Nat. Park, CC-912 Km 16 to Torrejón el Rubio (39° 49' N, 6° 02' W), 02-03-89, 1M, Ref. Z0737. Córdoba, Los Morales (37° 55' N, 4° 48' W), 06-05-91, 1M, Ref. Z1043. Cuenca, Barajas de Melo, road to Tarancón (40° 05' N, 2° 55' W), 16-09-91, 2M + 1F + 1J, Ref. Z1253.
<i>N. delator</i> (1)	BACH & GAJU (1987) (1)	–
<i>N. foreli</i> (2)	MOLERO & al. (1994b) (1); MENDES (2002a)* (1)	–
<i>N. hesperica</i> (26)	MENDES (1980a)* (7); MENDES (1982)* (1); MENDES (1988)* (1); MENDES (1992)* (3); MENDES (2002a)* (6); MOLERO & al. (1996a) (8)	–
<i>N. lusitana</i> (1)		Badajoz, Capilla, Zújar river (38° 47' N, 5° 05' W), 1-5-91, 1F together with <i>N. spectabilis</i> , Ref. Z767.
<i>N. spectabilis</i> (2)	MENDES (1980a) (1)	Badajoz, Capilla, Zújar river (38° 47' N, 5° 05' W), 1-5-91, 2M+5F together with <i>N. lusitana</i> , Ref. Z768.

**Tab. S1.6:** Detailed references of interactions of ants of the species *Aphaenogaster subterranea* (LATREILLE, 1798) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (1)	BACH & GAJU (1987) (1)	–
<i>N. angustothoracica</i> (1)	GRASSI & ROVELLI (1890)* (1)	–
<i>N. delator</i> (1)	BACH & GAJU (1987) (1)	–

**Tab. S1.7:** Detailed references of interactions of ants identified in literature as *Aphaenogaster testaceopilosa* (LUCAS, 1849) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>L. chlorosoma</i> (1)	Referred by PACLT (1967)* as <i>L. lucasi</i> (1)	–
<i>N. wasmanni</i> (1)	Referred by PACLT (1967)* (1)	–
<i>Tricholepisma aurea</i> (1)	DUFOR (1831), referred by PACLT (1967)* (1)	–
<i>T. gyriiformis</i> (1)	GRASSI & ROVELLI (1890)*, referred by PACLT (1967)* (1)	–

**Tab. S1.8:** Detailed references of interactions of ants identified as *Aphaenogaster* sp. with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>L. baetica</i> (1)	MOLERO & al. (1994a) (1)	–
<i>N. curtiseta</i> (1)	MENDES (2002a)* (1)	–
<i>N. delator</i> (1)		Montes de Málaga (36° 48' N, 4° 22' W), 30-10-84, 1M, Ref. Z2139.
<i>N. hesperica</i> (10)	MOLERO & al. (1996a) (2); MENDES (2002a)* (7)	Cádiz, Zahara de la Sierra (36° 50' N, 5° 24' W), 19-3-2011, 1M + 1F, Ref. Z2492.

**Tab. S1.9:** Interactions of ants of the genus *Bothriomyrmex* EMERY, 1869 (sp. indet.) with silverfish. Two types of interactions, one of them new (marked with bold character and grey background). Two interactions from Spain for statistic study (one of them previously published), no additional interactions from literature.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (1)	MOLERO & al. (1998b)	–
<i>L. chlorosoma</i> (1)		Zamora, Castronuevo, Valderaduey river (41° 43' N, 5° 32' W), 24-9-1992, 3M + 1F + 2J, Ref. Z1889.

**Tab. S1.10:** Number of the different types of interactions of ants of the genus *Camponotus* with silverfish. 30 types of interactions, 25 of them reported in Continental Spain, three of them new. 95 interactions from samples of Spain for statistic study (60 of them previously published), 15 additional Western-Palaeartic interactions from literature not included in statistics.

<i>Camponotus</i> species	Av	Pp	Lc	Ncr	Ncu	Nd	Nh	Nl	Np	Nso	Nsp	Nw	Ti	Tot	Lit stat	Lit not incl
<i>C. aethiops</i>		5			<b>4</b>							2		11	7	2
<i>C. cruentatus</i>		14			22		1	<b>2</b>	1			1		41	20	5
<i>C. ligniperda</i>																1
<i>C. cf. micans</i>					1						1			2	2	0
<i>C. nylanderii</i>														0	0	1
<i>C. pilicornis</i>		5			3	1						1		10	9	0
<i>C. sicheli</i>		1												1	1	0
<i>C. sylvaticus</i>	2	10		<b>1</b>	5				2			1	2	23	17	2
<i>C. sp.</i>		2	1		1					1	1			6	4	4

**Tab. S1.11:** Detailed references of interactions of ants identified as *Camponotus aethiops* (LATREILLE, 1798) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (7)	GRASSI & ROVELLI (1890)*, referred as <i>C. marginatus</i> ; MENDES & BACH (1981)* (1); MOLERO & al. (1998b) (5)	–
<i>N. curtiseta</i> (4)		Burgos, Castrojeriz (42° 16' N, 4° 06' W), 26-09-92, 2F, Ref. Z1927. Cuenca, Gascueña (40° 17' N, 2° 30' W) 19-08-92, 1M + 1J, Ref. Z1105. Navarra, Yesa, road intersection to the Leyre monastery (42° 37' N, 1° 09' W), 10-07-92, 2F, Ref. Z1707. Soria, Berlanga de Duero, road to Andaluz (41° 28' N, 2° 51' W), 24-08-92, 2M + 2F + 8J, Ref. Z1953.
<i>N. wasmanni</i> (2)	MOLERO & al. (1996a) (2)	–

**Tab. S1.12:** Detailed references of interactions of ants identified as *Camponotus cruentatus* (LATREILLE, 1802) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (19)	Forel, referred by ESCHERICH (1903)* (1) MENDES (1980a)* (2), MENDES (2002a)* (2), MOLERO & al. (1998b) (14)	–
<i>N. curtiseta</i> (22)	GAJU & al. (1987) (1); MOLERO & al. (1992) (2)	Ávila, Muñana, road to Puerto de las Fuentes (40° 37' N, 5° 02' W), 22-09-92, 1M + 4F together with <i>P. pseudolepisma</i> , Ref. Z1827. Badajoz, Valencia del Mombuey (38° 13' N, 7° 05' W), 02-09-81, 1M + 2F + 2J, Ref. Z0727. Barcelona, Sitges, Garraf mountains (41° 15' N, 1° 48' E), 21-V-92, 3M+1F+1J, Ref. Z1600, published in MOLERO & al., 1994b as hosted by <i>Camponotus</i> sp. Cáceres, Berzocana (39° 26' N, 5° 27' W), 07-06-91, 1M, Ref. Z0857. Cáceres, Cabezuela del Valle (40° 11' N, 5° 49' W), 07-06-91, 3M, Ref. Z0756. Cáceres, Las Hurdes, Santibáñez el Alto, C-513, Km 65 (40° 11' N, 6° 33' W), 08-06-91, 4M, Ref. Z0731. Cuenca, Abia de la Obisपाला (40° 01' N, 2° 24' W), 16-09-91, 1M + 1F, Ref. Z1231. Cuenca, Cañizares, road to Beteta, pine-tree forest (40° 31' N, 2° 09' W), 20-08-92, 1M + 1F, Ref. Z1138. Granada, Castril, road to Benamaurel (37° 47' N, 2° 46' W), 24-10-91, 1M + 1F, Ref. Z1047. Huelva, Corteconcepción, Aracena pond (37° 53' N, 6° 28' W), 27-03-92, 1F, Ref. Z0978. Huelva, Santa Bárbara de Casa, road to Paymogo, grassland (37° 47' N, 7° 13' W), 28-03-92, 4F + 2J together with <i>N. hesperica</i> , Ref. Z1025. Huesca, Benabarre, road to Lérida (42° 03' N, 0° 29' E), 14-07-92, 7M + 3F, Ref. Z1759. Huesca, Loporzano, near Sipan (42° 10' N, 0° 17' W), 09-07-92, 1M and several juveniles, together with <i>N. wasmanni</i> and <i>P. pseudolepisma</i> , Ref. Z1733. Os de Balaguer (Lérida), Serra del Convent (41° 52' N, 0° 44' E), 15-07-92, 2M, Ref. Z1625. Olmeda de las Fuentes (Madrid), road to Mondéjar (40° 21' N, 3° 10' W), 13-09-91, 1F, Ref. Z1203. Tarragona, mountain pass of Falset (41° 08' N, 0° 50' E), 24-05-92, 1F together with <i>P. pseudolepisma</i> , Ref. Z1608. Toledo, grassland with oaks, near Polán and Guadamur (39° 49' N, 4° 10' W), 12-09-91, 1M + 3F, Ref. Z1208. Valladolid, Castromonte, Torozos forest, near La Espina monastery (41° 44' N, 5° 05' W), 26-09-92, 1F, Ref. Z1929. Zamora, Fermoselle, besides Tormes river (41° 16' N, 6° 23' W), 23-09-92, 3M + 3F, Ref. Z1839.
<i>N. hesperica</i> (1)	MOLERO & al. (1996a) (1)	–
<i>N. lusitana</i> (2)		Albacete, Alcaraz mountains, road to Riópar (38° 31' N, 2° 26' W), 27-10-91, 1J, Ref. Z1187. Cáceres, Alía, Guadarranque river (39° 28' N, 5° 08' W), 6-6-91, 1M, Ref. Z808.
<i>N. pallida</i> (1)	MOLERO & al. (1995b) (1)	–
<i>N. wasmanni</i> (1)	MOLERO & al. (1996a) (1)	–

**Tab. S1.13:** Detailed references of interactions of ants identified as *Camponotus ligniperda* (LATREILLE, 1802) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (1)	ESCHERICH (1903)* (mention of a reference from Wasmann), referred as <i>Grassiella polypoda</i> (1)	–

**Tab. S1.14:** Detailed references of interactions of ants identified as *Camponotus* cf. *micans* (NYLANDER, 1856) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>N. curtiseta</i> (1)		Jaén, road N-322 near Villarrodrigo (38° 29' N, 2° 42' W), 4-4-92, 1M, together with <i>N. spectabilis</i> , Ref. Z954.
<i>N. spectabilis</i> (1)		Jaén, road N-322 near Villarrodrigo (38° 29' N, 2° 42' W), 4-4-92, 1M, together with <i>N. curtiseta</i> , Ref. Z2060.

**Tab. S1.15:** Detailed references of interactions of ants identified as *Camponotus nylanderi* EMERY, 1921 with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>Tricholepisma aurea</i> (1)	PACLT (1967)* (1)	–

**Tab. S1.16:** Detailed references of interactions of ants identified as *Camponotus pilicornis* (ROGER, 1859) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (5)	MOLERO & al. (1992) (3); MOLERO & al. (1998b) (2)	–
<i>N. curtiseta</i> (3)	MOLERO & al. (1992) (2)	Andújar (Jaén), Jándula Pond, 03-03-1991, 1 J, Ref. Z0522 (reported as <i>Camponotus</i> sp. in MOLERO & al. 1992).
<i>N. delator</i> (1)	MOLERO & al. (1992) (as <i>N. iberica</i> ) (1)	–
<i>N. wasmanni</i> (1)	MOLERO & al. (1996a) (1)	–

**Tab. S1.17:** Detailed references of interactions of ants identified as *Camponotus sicheli* MAYR, 1866 with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (1)	Reported from Balearic Islands by MOLERO & al. (1998b) (1)	–

**Tab. S1.18:** Detailed references of interactions of ants identified as *Camponotus sylvaticus* (OLIVIER, 1792) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>A. valenciana</i> (2)	MOLERO & al. (1998b) (2)	–
<i>P. pseudolepisma</i> (10)	GAJU & BACH (1987) (1); MOLERO & al. (1998b) (9)	–
<i>N. crassipes</i> (1)		Mora de Ebro (Tarragona), road to Gandesa (41° 05' N, 0° 56' E), 25-5-1992, 3M+4F+1J, Ref. Z1576.
<i>N. curtiseta</i> (7)	MENDES (1980a)* (1), MENDES (1988)* (1)	Lanjarón (Granada), road to Órgiva (36° 54' N, 3° 28' W), 18-03-92, 1F, Ref. Z1033. Huelva, El Campillo, from Zalamea la Real to Jabugo, near Odiel river (37° 43' N, 6° 42' W), 29-03-92, 1M + 1F + 1J, Ref. Z0963. Murcia, near San Pedro mountain pass from Monte Blanco to Sucina (37° 57' N, 0° 57' W), 11-04-92, 3M + 1F + 2J, Ref. Z1448. Murcia, Totana, Sierra Espuña (37° 49' N, 1° 36' W), 15-04-92, 1F, Ref. Z1529. Valencia, Requena, road to Casas-Ibáñez near Cabriel river (39° 20' N, 1° 21' W), 29-04-92, 2F, Ref. Z1314.
<i>N. pallida</i> (2)	MOLERO & al. (1995a) (2)	–
<i>N. wasmanni</i> (1)	MOLERO & al. (1996a) (1)	–
<i>T. indalica</i> (2)	MOLERO & al. (1995a) (2)	–

**Tab. S1.19:** Detailed references of interactions of ants identified as *Camponotus* sp. with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>A. formicaria</i> (1)	KRATOCHVIL (1945)* (1)	–
<i>P. pseudolepisma</i> (2)	MOLERO & al. (1998b) (2)	–
<i>L. chlorosoma</i> (2)	MENDES (2002a) (1)	Ciudad Real, Fuencaliente, Sierra Madrona, Piedra Escrita (38° 23' N, 4° 17' W), 12-3-88, 1M, Ref. Z1983.
<i>N. curtiseta</i> (2)	MOLERO & al. (1992) (1); MENDES (2002a) (1)	–
<i>N. soerenseni</i> (1)	MOLERO & al. (1994c) (1)	–
<i>N. spectabilis</i> (1)		Valencia, Casinos (39° 42' N, 0° 45' W), 29-4-92, 1F together with <i>P. pseudolepisma</i> , Ref. Z1338.
<i>N. vulcana</i> (1)	MENDES (1993) (1)	–

**Tab. S1.20:** Number of the different types of interactions of ants of the genus *Cataglyphis* with silverfish. Eight types of interactions, five of them reported in Continental Spain, four of them new. 13 interactions from samples of Spain for statistic study (only one of them previously published), four additional Western-Palaeartic interactions from literature not included in statistics.

<i>Cataglyphis</i> species	Pp	Ncu	Nsp	Tot	Lit stat	Lit not incl
<i>C. hispanica</i>	1	7	1	9	1	
<i>C. iberica</i>		2		2		
<i>C. velox</i> + <i>C. cf. velox</i>		2		2		
<i>C. viatica</i>						4

**Tab. S1.21:** Detailed references of interactions of ants identified as *Cataglyphis hispanica* (EMERY, 1906) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (1)	MOLERO & al. (1998b) (1)	–
<i>N. curtiseta</i> (7)		Badajoz, Siruela, road to Agudo (38° 58' N, 4° 59' W), 01-05-91, 4M + 2F, Ref. Z0762. Cáceres, Santibáñez el Alto, CC-513, Km 65 (40° 11' N, 6° 33' W), 08-06-91, 2H, Ref. Z0755. Cáceres, Serradilla, Monfragüe Nat. Park (39° 49' N, 6° 01' W), 27-03-91, 1M, Ref. Z0861. Huelva, Aroche, road to Cortegana (37° 57' N, 6° 55' W), 28-03-92, 3M + 1F, Ref. Z0961. Huelva, Rosal de la Frontera, Ribera Calaboza (37° 54' N, 7° 12' W), 28-03-92, 2M + 6F + 1J together with <i>N. spectabilis</i> , Ref. Z1004. Jaén, Castellar (38° 15' N, 3° 07' W), 30-04-92, 16M and several females and juveniles, together with <i>N. spectabilis</i> , Ref. Z0958. Madrid, Rozas del Puerto, road C-501 to Casillas (40° 18' N, 4° 30' W), 21-07-92, 1F, Ref. Z1099.
<i>N. spectabilis</i> (1)		Rosal de la Frontera (Huelva), Ribera Calaboza (37° 54' N, 7° 12' W), 28-03-92, 3M + 1F together with <i>N. curtiseta</i> , Ref. Z2055. Jaén, Castellar (38° 15' N, 3° 07' W), 30-04-92, 2M and several females and juveniles, together with <i>N. spectabilis</i> , Ref. Z0958.

**Tab. S1.22:** Detailed references of interactions of ants identified as *Cataglyphis iberica* (EMERY, 1906) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>N. curtiseta</i> (2)		Zaragoza, Belchite, near Pueyo sanctuary (41° 18' N, 0° 50' W), 27-06-92, 1F, Ref. Z1742; Zaragoza, Caspe, road to Alcañiz (41° 11' N, 0° 10' W), 27-06-92, 1F, Ref. Z1651.

**Tab. S1.23:** Detailed references of interactions of ants identified as *Cataglyphis velox* SANTSCHI, 1925 or *C. viatica* (FABRICIUS, 1787) with silverfish. References in the literature to *C. viatica* in the Iberian Peninsula must be attributed to *C. velox* (or related species, identified here as *Cataglyphis* cf. *velox*).

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>Lepismima emiliae</i> (1)	ESCHERICH (1903) (1)	
<i>N. curtiseta</i> (2)	MOLERO & al. (1992) (published as <i>C. viatica</i> )	Granada, Padul, Venta del Fraile, road to Otívar, Almirajara mountains (37° 01' N, 3° 40' W), 20-03-92, 3F, Ref. Z0990.
<i>N. spectabilis</i> (1)	MENDES (1988)* (1)	–
<i>N. wasmanni</i> (2)	ALFIERI (1932)* (1); ESCHERICH (1903)* (1)	–

**Tab. S1.24:** Number of the different types of interactions of ants of the genus *Crematogaster* with silverfish. Five types of interactions, four of them reported in Spain, two of them new. Eight interactions from samples of Spain for statistic study (two of them previously published), one additional interaction in Western-Palaeartic from literature not included in statistics.

<i>Crematogaster</i> species	Lb	Lc	NI	Tot	Lit stat	Lit not incl
<i>C. auberti</i>	2	3	<b>1</b>	6	2	0
<i>C. laetrygon</i>	<b>1</b>			1	0	0
<i>C. scutellaris</i>				0	0	1
<i>Crematogaster</i> sp.		1		1	0	0

**Tab. S1.25:** Detailed references of interactions of ants identified as *Crematogaster auberti* EMERY, 1869 with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>L. baetica</i> (2)	MOLERO & al. (1994a) (1)	The sample of <i>L. chlorosoma</i> in BACH & GAJU (1987) correspond actually to <i>L. baetica</i> .
<i>L. chlorosoma</i> (3)	GAJU & al. (1987) (1)	Toledo, Corral de Almaguer to Lillo (39° 45' N, 3° 12' W), 19-8-1992, 1J, Ref. Z1179. Zamora, Tabara, near Ferreras de Abajo (41° 52' N, 6° 0' W), 24-9-92, 1J, Ref. Z1865.
<i>N. lusitana</i> (1)		Jaén, road N-322 near Villarrodrigo (38° 29' N, 2° 42' W), 24-2-92, 2M + 1J, Ref. Z0953.

**Tab. S1.26:** Detailed references of interactions of ants identified as *Crematogaster laetrygon* EMERY, 1869 with silverfish. This represents a new interaction (marked with bold character) and the first citation of *L. baetica* for the Balearic islands.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>L. baetica</i> (1)		Majorca, punta Amer, Sa Coma (39° 34' N, 3° 23' E), 4M + 1F, Ref. Z1298.

**Tab. S1.27:** Detailed references of interactions of ants identified as *Crematogaster scutellaris* (OLIVIER, 1792) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>L. chloroma</i> (1)		Cited as <i>L. lucasi</i> by GRASSI & ROVELLI (1890)* (1)



**Tab. S1.28:** Detailed references of interactions of ants identified as *Crematogaster* sp. with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>L. chlorosoma</i> (1)		Cáceres, Cañaveral (39° 48' N, 6° 22' W), 30-3-91, 2M + 2F, Ref. Z0751.

**Tab. S1.29:** Interactions of ants of the genus *Solenopsis* WESTWOOD, 1840 with silverfish. Species *S. fugax* (LATREILLE, 1798). One interaction from the literature, none reported in Spain.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>N. balcanica</i> (1)	MENDES (1988)*	–

**Tab. S1.30:** Number of the different types of interactions of ants of the genus *Formica* s.lat. with silverfish. Eleven types of interactions, seven of them reported in Spain, one of them new. 42 interactions from samples of Spain for statistic study (27 of them previously published), eleven additional Western-Palaearctic data of interactions from literature not included in statistics.

<i>Formica</i> (s.lat.) species	Pp	Ncu	NI	Np	Tot	Lit stat	Lit not incl
<i>F. cinerea</i>					0		1
<i>F. fusca</i>					0		1
<i>F. gerardi</i>	1			1	2	2	0
<i>F. rufibarbis</i>		1			1	0	0
<i>F. sanguinea</i>							1
<i>F. subrufa</i>	8	28	2	1	39	25	0
<i>Formica</i> sp.					0	0	10

**Tab. S1.31:** Detailed references of interactions of ants identified as *Formica cinerea* MAYR, 1853 with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>A. formicaria</i> (1)	SILVESTRI (1942)* (1)	–

**Tab. S1.32:** Detailed references of interactions of ants identified as *Formica fusca* LINNEUS, 1758 with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>A. formicaria</i> (1)	SILVESTRI (1942)* (1). Perhaps this reference to <i>F. fusca</i> is based on a report of Janet mentioned by ESCHERICH (1903).	–

**Tab. S1.33:** Detailed references of interactions of ants identified as *Formica gerardi* BONDROIT, 1917 with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (1)	MOLERO & al. (1998b) (1)	–
<i>N. pallida</i> (1)	MOLERO & al. (1995b) (1)	–

**Tab. S1.34:** Detailed references of interactions of ants identified as *Formica rufibarbis* FABRICIUS, 1793 with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>N. curtiseta</i> (1)		Teruel, Escorihuela (40° 31' N, 0° 57' W), 21-8-92, 2F, Ref. Z1717.

**Tab. S1.35:** Detailed references of interactions of ants identified as *Formica sanguinea* LATREILLE, 1798 with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>A. formicaria</i>	Wasmann, referred to by ESCHERICH (1903)* (1)	–

**Tab. S1.36:** Detailed references of interactions of ants identified as *Formica subrufa* ROGER, 1859 with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (8)	MOLERO & al. (1992) (2); MOLERO & al. (1998b) (6)	–
<i>N. curtiseta</i> (28)	BACH & GAJU (1987) (12), GAJU & al. (1987) (1), MOLERO & al. (1992) (2)	Albacete, Ossa de Montiel, La Lengua lagoon (38° 56' N, 2° 51' W), 26-05-92, 1M, Ref. Z2063. Badajoz, Siruela, road to Agudo (38° 58' N, 4° 59' W), 01-05-91, 1M + 1F, Ref. Z0818. Cáceres, Alcántara pond, CC-912 Km 16 (39° 35' N, 6° 18' W), 02-03-89, 1M + 2F + 3J, Ref. Z0736. Ciudad Real, Retuerta del Bullaque, Torre de Abraham pond (39° 22' N, 4° 14' W), 12-09-91, 1M + 1F, Ref. Z1192. Córdoba, Cardaña, road to Villanueva (38° 17' N, 4° 24' W), 12-07-89, 1F, Ref. Z0449. Córdoba, Hornachuelos, Bonajarafe river, 1F incorrectly identified as <i>N. spectabilis</i> in BACH & GAJU (1987), Ref. Z0020. Cuenca, Huete, road to Carrascosa del Campo (40° 07' N, 2° 41' W), 16-09-91, 1M + 1F, Ref. Z1240. Guadalajara, Pastrana, near Tajo river (40° 22' N, 2° 54' W), 13-09-91, 1J, Ref. Z1148. Huelva, El Campillo, road to Minas de Riotinto (37° 41' N, 6° 37' W), 30-03-92, 2M + 3F + 1J together with <i>P. pseudolepisma</i> , Ref. Z1020. Jaén, Hinojares, from Tíscar to Pozo Alcón (37° 44' N, 2° 59' W), 24-10-91, 3M + 1F, Ref. Z1061. Valencia, Cofrentes (39° 13' N, 1° 05' W), 25-04-92, 1F + 2J, Ref. Z1484. Valencia, Vilamarxant (39° 32' N, 0° 38' W), 27-04-92, 1M + 1F, Ref. Z1457. Zaragoza, Mequinenza, road to Caspe (41° 19' N, 0° 09' W), 26-06-92, 1F together with <i>P. pseudolepisma</i> , Ref. Z1705.
<i>N. lusitana</i> (2)	BACH & GAJU (1987) (1)	Albacete, Ossa de Montiel, La Lengua lagoon (38° 56' N, 2° 51' W), 26-05-92, 1M, Ref. Z1156.
<i>N. pallida</i> (1)	MOLERO & al. (1995b) (1)	–

**Tab. S1.37:** Detailed references of interactions of ants identified as *Formica* sp. with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>A. formicaria</i>	KRATOCHVIL (1945)* (1)	–
<i>P. pseudolepisma</i> (5)	MENDES (1982)* (1); MENDES (2002a)* (4)	–
<i>N. curtiseta</i> (3)	MENDES (1980a)* (1); MENDES (1988)* (1); MENDES (2002a)* (1)	–
<i>N. hesperica</i> (1)	MENDES (1982)* (1)	–

**Tab. S1.38:** Interactions of ants of the genus *Goniomma* EMERY, 1895 with silverfish. *Goniomma blanci*: This is the first time, as far as we know, that a *Zygentoma* is reported in a nest of this genus of ants. The sample was published in MOLERO & al. (1992), but in this work no reference to the ant was indicated. So at this moment the interaction is referred as new. This interaction is not included in Tables 2 and S2.1, but in Table 5 of the main document, since the specimen of Lepismatinae was in bad condition and it was no possible to identify it at species level.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>Neoasterolepisma</i> sp. (1)		Granada, road from Guadix to Baza (37° 23' N, 3° 01' W), 21-6-86. 1F. Ref. Z0215.

**Tab. S1.39:** Number of the different types of interaction of ants of the genus *Lasius* FABRICIUS, 1804 with silverfish. Thirteen types of interactions, ten of them reported in Spain, one of them new. Nineteen interactions from samples of Spain for statistic study (18 of them previously published), twelve additional Western-Palaeartic data of interactions from literature not included in statistics.

<i>Lasius</i> species	Av	Pp	Ls	Neu	Nh	Nw	Tot	Lit stat	Lit not incl
<i>Lasius alienus</i>		1					1	1	2
<i>L. brunneus</i>		5					5	5	1
<i>L. emarginatus</i>		1					1	1	
<i>L. flavus</i>		1					1	1	2
<i>L. niger</i>	1	6	1		1	1	10	9	5
<i>L. umbratus</i>							0	0	1
<i>Lasius</i> sp.		1		1			2	2	1

**Tab. S1.40:** Interactions of ants identified as *Lasius alienus* (FÖRSTER, 1850) with silverfish.

Species of Zygentoma (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (3)	Wasmann, referred by ESCHERICH (1903)*, (1); MENDES (1980a)* (1), MOLERO & al. (1998b)	–

**Tab. S1.41:** Interactions of ants identified as *Lasius brunneus* (LATREILLE, 1798) with silverfish.

Species of Zygentoma (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (6)	Wasmann, referred by ESCHERICH (1903)* (1); MOLERO & al. (1998b) (5)	–

**Tab. S1.42:** Interactions of ants identified as *Lasius emarginatus* (OLIVIER, 1792) with silverfish.

Species of Zygentoma (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (1)	MOLERO & al. (1998b) (1)	–

**Tab. S1.43:** Interactions of ants identified as *Lasius flavus* (FABRICIUS, 1781) with silverfish.

Species of Zygentoma (number of samples)	Literature references	New data
<i>A. formicaria</i> (2)	SILVESTRI (1942)* (1); perhaps based in a reference of Janet mentioned by ESCHERICH (1903); PARMENTIER & al. (2013)*	–
<i>P. pseudolepisma</i> (1)	MOLERO & al. (1992) (1)	–

**Tab. S1.44:** Interactions of ants identified as *Lasius niger* with silverfish.

Species of Zygentoma (number of samples)	Literature references	New data
<i>A. formicaria</i> (3)	STACH (1929)* (1); SILVESTRI (1942)* (1); CHRISTIAN (1994)*	–
<i>A. valenciana</i> (1)	MOLERO & al. (1998b) (1)	–
<i>P. pseudolepisma</i> (8)	Wasmann, referred to by ESCHERICH (1903)* (1); PACLT (1961)* (1); MOLERO & al. (1998b) (6)	–
<i>L. saccharina</i> (1*)		Granada, Güéjar-Sierra, Vereda de la Estrella (37° 08' N, 3° 23' W), 1400 m, 1J, Ref. Z2068.
<i>N. hesperica</i> (1)	MOLERO & al. (1996a) (1)	–
<i>N. wasmanni</i> (1)	MOLERO & al. (1996a) (1)	–

**Tab. S1.45:** Interactions of ants identified as *Lasius umbratus* (NYLANDER, 1846) with silverfish.

Species of Zygentoma (number of samples)	Literature references	New data
<i>A. formicaria</i> (1)	JANET (1896)* explained the cleptobiotic behavior of this silverfish (1)	–

**Tab. S1.46:** Interactions of ants identified as *Lasius* sp. with silverfish.

Species of Zygentoma (number of samples)	Literature references	New data
<i>A. formicaria</i> (1)	KRATOCHVIL (1945)* (1)	–
<i>P. pseudolepisma</i> (1)	MOLERO & al. (1992) (1)	–
<i>N. curtiseta</i> (1)	MOLERO & al. (1992)	–

**Tab. S1.47:** Interactions of ants of the genus *Linepithema* MAYR, 1866 with silverfish. One interaction. three samples for Spain for statistic study (all of them previously published), four additional Western-Palaeartic data from literature not included in statistics.

<i>Linepithema</i> species	Pp	Tot	Lit stat	Lit not incl
<i>Linepithema humile</i>	3	3	3	4

**Tab. S1.48:** Interactions of ants identified as *Linepithema humile* MAYR, 1868 with silverfish.

Species of Zygentoma (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (7)	MENDES (1980a) (3); MOLERO & al. (1998) (3); MENDES (2002a) (1)	–

**Tab. S1.49:** Interactions of ants of the genus *Messor* with silverfish. 51 interactions, 47 of them reported in Spain, 12 of them new. 461 samples for Spain for statistic study (157 of them previously published), 109 additional Western-Palaeartic data from literature not included in statistics.

<i>Messor</i> species	Av	Pp	Lc	Ls	Nb	Ncr	Ncu	Nd	Nf	Ng	Nl	Np	Nso	Nsp	Nw	Ta	Tot	Lit stat	Lit not incl
<i>M. barbarus</i>	2	17			3	29	4	1	32	12	38	1	11	77	21	3	251	93	51
<i>M. bouvieri</i>		3			2	3	5		3					18	6		40	14	2
<i>M. capitatus</i>		8			1	8	13		2	1	7			16	5		61	15	12
<i>M. hispanicus</i>		5					3		1	1	3			6			19	5	0
<i>M. structor</i>		6	1		1	10	2		1		3			10	6	1	41	16	3
<i>Messor</i> sp.		10		1		3	8		2		6		1	16	2		49	14	41

**Tab. S1.50:** Interactions of ants identified as *Messor barbarus* (LINNAEUS, 1767) with silverfish.

Species of Zygentoma (number of samples)	Literature references	New data
<i>A. valenciana</i> (2)	MOLERO & al. (1998b) (2)	–
<i>P. pseudolepisma</i> (17)	MOLERO & al. (1992) (3); MOLERO & al. 1998b (14)	–

<i>N. balearica</i> (3)	MOLERO & al. (1998a) (3)	–
<i>N. crassipes</i> (30)	ESCHERICH (1905)* (1); BACH & al. (1993) (2); MOLERO & al. (1994b) (1)	Barcelona, Monistrol de Montserrat (41° 36' N, 1° 49' E), 21-05-92, 1M + 1F + 4J together with <i>N. wasmanni</i> , Ref. Z1578. Barcelona, Olivella (41° 18' N, 1° 49' E), 16-05-92, 2M + 2F + 2J, Ref. Z1566. Barcelona, Sant Quintí de Mediona (41° 28' N, 1° 39' E), 19-05-92, 2M + 2F + 7J, Ref. Z1558; Barcelona, Sentmenat, road to Sabadell (41° 35' N, 2° 07' E), 23-05-92, 3M + 2F together with <i>N. balearica</i> , Ref. Z1562. Castellón, Alcalá de Chivert (40° 18' N, 0° 11' E), 28-04-92, 3M + 1F + 19J together with <i>N. foreli</i> and <i>P. pseudolepisma</i> , Ref. Z1499. Castellón, Chert (40° 31' N, 0° 06' E), 15-05-92, 1M together with <i>N. foreli</i> , Ref. Z1427. Gerona, Llagostera (41° 49' N, 2° 57' E), 21-05-92, 4M + 5F + 5J, Ref. Z1591. Huesca, Albalate de Cinca (41° 43' N, 0° 08' E), 26-06-92, 3F + 1J, Ref. Z1678; same locality and date, in another nest, 12M + 9F + 2J together with <i>N. wasmanni</i> , Ref. Z1690; Huesca, Candanos, road N-II to Peñalba Km 404 (41° 30' N, 0° 01' E), 25-06-92, 2M + 3F + 1J together with <i>N. wasmanni</i> , Ref. Z1668; same locality and date, in another nest, 1M + 4F together with <i>N. wasmanni</i> , Ref. Z1687; Huesca, Lalueza to Marcén (41° 52' N, 0° 16' W), 25-06-92, 1F, Ref. Z1686. Navarra, Carcastillo, road to Sádaba (42° 20' N, 1° 25' W), 23-06-92, 3M + 3F, Ref. Z1777; Navarra, Los Arcos, road to Viana (42° 33' N, 2° 14' W), 23-06-92, 2M + 1J, Ref. Z1772; Navarra, Pitillas (42° 24' N, 1° 35' W), 23-06-92, 11M + 6F + 10J together with <i>P. pseudolepisma</i> , Ref. Z1665; Navarra, Tafalla, road to Estella (42° 32' N, 1° 46' W), 23-06-92, 1F + 5J, Ref. Z1762. Tarragona, Segur de Calafell (41° 12' N, 1° 38' E), 24-05-92, 6M + 4F + 1J together with <i>T. aurea</i> and <i>P. pseudolepisma</i> , Ref. Z1617; Tarragona, La Bisbal del Penedés, Can Gordey (41° 15' N, 1° 28' E), 18-05-92, 1J together with <i>N. wasmanni</i> , Ref. Z1583; Tarragona, Mas de Barberans (40° 44' N, 0° 23' E), 15-05-92, 1F, Ref. Z1587. Teruel, La Fresneda, from Valderrobres to Alcañiz (40° 56' N, 0° 04' E), 24-05-92, 1M + 1J together with <i>N. wasmanni</i> , Ref. Z1769. Zaragoza, Caspe, road to Alcañiz (41° 11' N, 0° 10' W), 27-06-92, 1M together with <i>N. wasmanni</i> , Ref. Z1745; Zaragoza, Mequinenza (41° 19' N, 0° 09' W), 26-06-92, 11M + 3F together with <i>N. wasmanni</i> , Ref. Z1743; Zaragoza, Pina de Ebro, La Retuerta (41° 28' N, 0° 21' W), J. Blasco col., 1-06-91, 1F, Ref. Z0600. Zaragoza, Santa Cruz del Moncayo (41° 52' N, 1° 45' W), 21-06-92, 1M, Ref. Z1696; Zaragoza, Zuera, road to Castejón (41° 55' N, 0° 55' W), 24-06-92, 4M + 4F together with <i>N. wasmanni</i> and <i>P. pseudolepisma</i> , Ref. Z1654; Zaragoza, Zuera, road to Las Pedrosas (41° 58' N, 0° 49' W), 24-06-92, 1M + 2F and several juveniles together with <i>N. wasmanni</i> and <i>P. pseudolepisma</i> , Ref. Z1765.
<i>N. curtisetia</i> (6)	MENDES (1980a)* (1); MOLERO & al. (1992) (1); MENDES (2002a)* (1);	Burgos, Cogollos (42° 12' N, 3° 40' W), 27-08-1992, 2M + 2F, Ref. Z1851. Cáceres, Cañaverál, Alcántara pond (39° 44' N, 6° 26' W), 30-03-1991, 1M, Ref. Z0792. Toledo, Corral de Almaguer, road to Lillo (39° 45' N, 3° 12' W), 11-08-1992, 2M + 2F + 2J, Ref. Z1100.
<i>N. delator</i> (1)	MOLERO & al. (1996a)* (1)	–
<i>N. foreli</i> (38)	ESCHERICH (1903)* (1); MENDES (1980a)* (4); MENDES (2002a)* (1); MOLERO & al. (1992) (6); MOLERO & al. (1994b) (1); MOLERO & al. (1994c) (5)	Albacete, Estación de Chinchilla (38° 53' N, 1° 40' W), 24-04-92, 11M + 6F + 10J together with <i>N. wasmanni</i> , Ref. Z1255; Albacete, Hellín, road to Liétor (38° 31' N, 1° 47' W), 30-04-92, 2F + 1J, Ref. Z1086. Alicante, Calpe, peñón de Ifach (38° 38' N, 0° 04' E), 13-04-92, 2M + 2F + 3J, together with <i>N. gauthieri calva</i> , <i>N. spectabilis</i> , and <i>A. valenciana</i> , Ref. Z1355; Alicante, Gata de Gorgos, road to Llíber (38° 45' N, 0° 02' E), 13-04-92, 6M + 2F, Ref. Z1445; Alicante, Orihuela, cape Roig (37° 53' N, 0° 45' W), 11-04-92, 8M + 11F + 2J together with <i>N. gauthieri calva</i> , Ref. Z1432. Almería, Mojácar beach (37° 08' N, 1° 49' W), 10-04-92, 2F + 1J together with <i>N. spectabilis</i> , Ref. Z0888. Barcelona, Rubí, Can Oriol (41° 29' N, 2° 03' E), 25-05-82, 1F together with <i>N. balearica</i> , Ref. Z1550; same locality and date in another nest, 1M + 1F, Ref. Z1548. Castellón, Altura (39° 51' N, 0° 30' W), 27-04-92, 10M + 11F + 8J together with <i>N. wasmanni</i> , Ref. Z1479; Castellón, Cabanes (40° 08' N, 0° 01' E), 28-04-92, 5M + 13F + several juveniles, together with <i>N. spectabilis</i> , Ref. Z1411; Castellón, Villafames (40° 06' N, 0° 04' W), 28-04-92, 3M + 2F + 3J, Ref. Z1419. Granada, Arenas del Rey, near Los Bermejales pond (36° 57' N, 3° 52' W), 20-03-92, 11M + 6F + 2J, Ref. Z1000. Jaén, Arroyo del Ojanco, road to Puente de Génave (38° 20' N, 2° 52' W), 24-04-92, 14M + 5F together with <i>N. lusitana</i> and <i>P. pseudolepisma</i> , Ref. Z0945. Murcia, Caravaca road to Lorca, near Quipar river (37° 59' N, 1° 55' W), 26-10-1991, 6M + 3F + 1J, Ref. Z1424. Murcia, Mazarrón (37° 36' N, 1° 17' W), 10-4-92, 17M + 5F + 3J together with <i>N. gauthieri calva</i> , Ref. Z1504. Murcia, Pliego (37° 58' N, 1° 29' W), 15-4-92, 2M + 4F + 4J together with <i>N. gauthieri calva</i> , Ref. Z1491. Murcia, Yecla, Sierra de las Pansas (38°

		28° N, 1° 08' W), 14-04-1992, 3M + 5F + 2J together with <i>N. gauthieri calva</i> , Ref. Z1377. Toledo, Almorox (40° 14' N, 4° 22' W), 22-07-92, 2M + 1F together with <i>N. lusitana</i> and <i>N. spectabilis</i> , Ref. Z1130. Valencia, Alcira (39° 08' N, 0° 26' W), 27-04-92, 1F together with <i>N. gauthieri calva</i> and <i>N. spectabilis</i> , Ref. Z1422; Valencia, Cortes de Pallás, near El Oro (39° 17' N, 0° 55' W), 25-04-92, 11M + 11F + several juveniles, together with <i>N. gauthieri calva</i> and <i>N. spectabilis</i> , Ref. Z1408.
<i>N. gauthieri</i> + <i>N. gauthieri calva</i> (14)	MENDES (1980a)* (2); MOLERO & al. (1994c) (5)	Alicante, Busot (38° 29' N, 0° 24' W), 14-1-1992, 2M + 2F + 5 J, Ref. Z1415. Alicante, Calpe, peñón de Ifach (38° 38' N, 0° 04' E), 13-04-92, 1M + 2F + 1 J, together with <i>N. foreli</i> , <i>N. spectabilis</i> and <i>A. valenciana</i> , Ref. Z1356. Alicante, Orihuela, cape Roig (37° 53' N, 0° 45' W), 11-04-92, M + F + J together with <i>N. foreli</i> , Ref. Z1432. Murcia, Mazarrón (37° 36' N, 1° 17' W), 10-4-92, 1J together with <i>N. foreli</i> , Ref. Z2050. Murcia, Pliego (37° 58' N, 1° 29' W), 15-4-92, 2M together with <i>N. foreli</i> , Ref. Z1493. Murcia, Yecla, Sierra de las Pansas (38° 28' N, 1° 08' W), 14-04-1992, 2 M + 2 F + several juveniles, together with <i>N. foreli</i> , Ref. Z1377. Valencia, Alcira (39° 08' N, 0° 26' W), 27-04-92, 1M + 1F together with <i>N. foreli</i> and <i>N. spectabilis</i> , Ref. Z1423.
<i>N. lusitana</i> (52)	MENDES (1980a)* (10); MENDES (1982)* (1); BACH & GAJU (1987) (2); MENDES (1988)* (3); MOLERO & al. (1992) (6); MOLERO & al. (1994b) (1)	Ávila, Madrigal de las Altas Torres (41° 05' N, 4° 58' W), 23-09-92, 1M + 2F together with <i>N. spectabilis</i> , Ref. Z1806. Badajoz, Alconchel (38° 30' N, 7° 04' W), 29-03-92, 1F together with <i>N. spectabilis</i> , Ref. Z0875; Badajoz, Mérida, Proserpina pond (38° 57' N, 6° 22' W), 26-03-91, 2M + 1F together with <i>N. spectabilis</i> and <i>N. soerenseni</i> , Ref. Z0789; Badajoz, Monesterio, road to Zafra (38° 08' N, 6° 16' W), 31-03-91, 3M + 2F together with <i>N. spectabilis</i> , Ref. Z0805; Badajoz, Villanueva del Fresno, Alcarrache river (38° 21' N, 7° 08' W), 29-03-92, 1M + 1F together with <i>N. spectabilis</i> , Ref. Z0865. Cáceres, Alía, Guadarranque river (39° 28' N, 5° 08' W), 06-06-91, 3M + 3J together with <i>N. spectabilis</i> , Ref. Z0782; same locality and date, 2M + 1F in other nest together with <i>N. spectabilis</i> , Ref. Z0793, and also in a third nest 12M + 7F + 2J with <i>N. spectabilis</i> , Ref. Z0820; Casar de Cáceres (39° 32' N, 6° 27' W), 01-03-89, 1F together with <i>N. spectabilis</i> , Ref. Z0772; same locality and date, 1F in another nest with <i>N. spectabilis</i> , Ref. Z0777; Cáceres, Cañamero, Rucas river (39° 22' N, 5° 22' W), 06-06-91, 4M + 5F + 2J together with <i>N. spectabilis</i> , Ref. Z0753; Cáceres, Escurial, C-401 (40° 36' N, 5° 56' W), 01-03-89, 1M together with <i>N. spectabilis</i> , Ref. Z0739. Ciudad Real, Puertollano (38° 42' N, 4° 05' W), 09-11-91, 1M together with <i>N. spectabilis</i> , Ref. Z1102; Ciudad Real, Valdemanco de Esteras, road from Almadén to Agudo, next to Esteras river (38° 54' N, 4° 47' W), 01-05-91, 1M, Ref. Z1229. Córdoba, Cardeña, road to Montoro (38° 12' N, 4° 19' W), 02-06-91, 3F together with <i>N. spectabilis</i> , Ref. Z1076. Cuenca, Mota del Cuervo, road to Belmonte (39° 31' N, 2° 49' W), 13-05-92, 1F together with <i>N. spectabilis</i> , Ref. Z2064. Guadalajara, Mondéjar, road to Almoquera (40° 19' N, 3° 04' W), 13-09-91, 10J together with <i>Messor barbarus</i> and <i>N. spectabilis</i> , Ref. Z1189. Huelva, Corteconcepción, near Aracena pond (37° 53' N, 6° 28' W), 27-03-92, 1M, Ref. Z0939; Huelva, Rosal de La Frontera, Ribera Calaboza (37° 54' N, 7° 12' W), 28-03-92, 6M + 2F + 1J together with <i>N. spectabilis</i> and <i>P. pseudolepisma</i> , Ref. Z0992; Huelva, Villanueva de Los Castillejos (37° 29' N, 7° 17' W), 26-03-92, 1M together with <i>N. spectabilis</i> , Ref. Z0967. Jaén, Arroyo del Ojanco, road to Puente de Génave (38° 20' N, 2° 52' W), 24-04-92, 1M + 1F together with <i>N. foreli</i> and <i>P. pseudolepisma</i> , Ref. Z0946; Jaén, Castellar (38° 15' N, 3° 07' W), 30-04-92, 2M, Ref. Z0959; Jaén, Génave (38° 26' N, 2° 45' W), 24-04-92, 2M, Ref. Z0940. Madrid, Navas del Rey (40° 23' N, 4° 14' W), 21-07-92, 3M + 1F, Ref. Z1111; Madrid, Rozas del Puerto to Casillas (40° 18' N, 4° 30' W), 21-07-92, 1J together with <i>N. spectabilis</i> , Ref. Z1168. Málaga, Casares (36° 24' N, 5° 16' W), 06-12-91, 2F together with <i>N. spectabilis</i> and <i>N. soerenseni</i> , Ref. Z1039; Málaga, Valle de Abdalajís, road to Álora (36° 54' N, 4° 41' W), 06-12-91, 1F together with <i>N. spectabilis</i> and <i>P. pseudolepisma</i> , Ref. Z1056. Toledo, Almorox (40° 14' N, 4° 22' W), 22-07-92, 3M + 4F + 1J together with <i>N. spectabilis</i> and <i>N. foreli</i> , Ref. Z1131. Zamora, Castronuevo, near Valderaduey river (41° 43' N, 5° 32' W), 24-09-92, 1M + 2F + 6J together with <i>N. spectabilis</i> , Ref. Z1902.
<i>N. pallida</i> (1)	MOLERO & al. (1995b) (1)	–
<i>N. soerenseni</i> (21)	MENDES (1980a)* (6); MENDES (1982)* (1); MENDES (1988)* (2); MOLERO & al. (1994b) (3); MOLERO & al.	Badajoz, Cabeza del Buey (38° 43' N, 5° 12' W), 6-6-91, 1 M together with <i>N. spectabilis</i> , Ref. Z0814. Badajoz, Mérida, Proserpina pond (38° 57' N, 6° 22' W), 26-03-91, 1M together with <i>N. lusitana</i> and <i>N. spectabilis</i> , Ref. Z0791. Huelva, Villanueva de los Castillejos (37° 29' N, 7° 17' W), 26-03-92, 3M + 2F + 1J, Ref. Z2069; same locality and date, in another nest, 6M + 2F, Ref. Z0968. Málaga,

	(1994c) (2); MENDES (2002a)* (1)	Casares (36° 24' N, 5° 16' W), 6-12-91, 2M + 1F together with <i>N. lusitana</i> and <i>N. spectabilis</i> , Ref. Z1040. Málaga, Mijas, road to Coín (36° 35' N, 4° 39' W), 13-02-93, 1M together with <i>N. spectabilis</i> ; Ref. Z1976.
<i>N. spectabilis</i> (88)	MENDES (1980a)* (9); MENDES (1982)* (1); GAJU & al (1987) (1); MOLERO & al. (1992) (9); MOLERO & al. (1994b) (3); MENDES (2002a)* (1)	Alicante, Calpe, peñón de Ifach (38° 38' N, 0° 04' E), 13-04-92, 4M + 9F + several juveniles, Ref. Z2046; Alicante, Salinas (38° 31' N, 0° 52' E), 14-04-92, 3F + several juveniles, Ref. Z2049; Alicante, San Vicente del Raspeig (38° 25' N, 0° 32' E), 11-04-92, 2M + 2F + 2J, Ref. Z1502. Almería, Alcolea, Gádor mountains northwards Berja (36° 56' N, 2° 57' W), 19-03-92, 16M + 20F + 5J, Ref. Z0972; Almería, Mojácar beach (37° 08' N, 1° 49' W), 10-04-92, 2M + 4F + 7J, Ref. Z0889. Ávila, Madrigal de Las Altas Torres (41° 05' N, 4° 58' W), 23-09-92, 8M + 15F + 16J, Ref. Z1807. Badajoz, Alconchel (38° 30' N, 7° 04' W), 29-03-92, 3M + 2F, Ref. Z0874; Badajoz, Cabeza del Buey (38° 43' N, 5° 12' W), 06-06-91, 1M + 2F, Ref. Z0813; Badajoz, La Puebla de Alcocer, near La Serena pond, road to Cabeza del Buey (38° 57' N, 5° 13' W), 01-05-91, 5M + 15F + 1J, Ref. Z0757; same locality and date, 5M + 7F + 3J in another nest, Ref. Z0810; Badajoz, Mérida, Proserpina pond (38° 57' N, 6° 22' W), 26-03-91, 2M + 1J, Ref. Z0790; Badajoz, Monesterio, road to Zafra (38° 08' N, 6° 16' W), 31-03-91, 2F + 3J, Ref. Z0804; Badajoz, Talarrubias (39° 0' N, 5° 14' W), 06-06-91, 2M, Ref. Z0750; Badajoz, Usagre, Sierra de Almorchón (38° 20' N, 6° 08' W), 05-03-89, 2M + 3F, Ref. Z0734; Badajoz, Villanueva del Fresno, Alcarrache river (38° 21' N, 7° 08' W), 29-03-92, 4M + 2F, Ref. Z0864; Badajoz, Zafra, Sierra del Castellar (38° 24' N, 6° 25' W), 31-03-91, 1M, Ref. Z0796. Cáceres, Alía, near Guadarranque river (39° 28' N, 5° 08' W), 06-06-91, 1M, Ref. Z0783; same locality and date, 1F in another nest, Ref. Z0794, and 2M + 4F in a third nest, Ref. Z0821; Cáceres, Berzocana (39° 26' N, 5° 27' W), 07-06-91, 1F, Ref. Z0842; Cáceres, road N-630, Km 547 (39° 24' N, 6° 21' W), 01-03-89, 2M, Ref. Z0786; Cáceres, Guadiloba pond (39° 18' N, 6° 17' W), 30-03-91, 1M + 3F + 4J, Ref. Z0837; Casar de Cáceres (39° 32' N, 6° 27' W), 01-03-89, 2M + 1F + 1J, Ref. Z0773, and 1M + 1F + 2J in another nest, Ref. Z0778; Cáceres, Cañamero, near Rucas river (39° 22' N, 5° 22' W), 06-06-91, 1M + 1F, Ref. Z0754; Cáceres, Escurial (40° 36' N, 5° 56' W), 01-03-89, 1M + 2F + 2J, Ref. Z0738. Cádiz, Medina-Sidonia, road to Alcalá de Los Gazules, A-381, formerly C-440, (36° 28' N, 5° 52' W), 13-07-90, 2F + 8J, Ref. Z0498. Castellón, Cabanes (40° 08' N, 0° 01' E), 28-04-92, 3F + several juveniles, Ref. Z1412. Ciudad Real, Almodóvar del Campo, near Retamar (38° 40' N, 4° 13' W), 12-09-91, 4M + 2F + 1J, Ref. Z1126; Ciudad Real, Puertollano (38° 42' N, 4° 05' W), 09-11-91, 2F + 1J, Ref. Z1101; same locality and date, 09-11-91, 1F + 1J, Ref. Z1254. Córdoba, Cardeña, road to Montoro (38° 12' N, 4° 19' W), 02-06-91, 3M, Ref. Z1075; Córdoba, Obejo, Guadalbarbo river (38° 05' N, 4° 49' W), 05-05-91, 6M, Ref. Z0564; Córdoba, Pozoblanco, Virgen de Luna hermitage (38° 19' N, 4° 43' W), 12-07-89, 1J, Ref. Z0453; Córdoba, Puente-Genil, Sierra del Castillo (37° 22' N, 4° 41' W), 20-03-93, 2M + 2F, Ref. Z1982. Cuenca, Mota del Cuervo, road to Belmonte (39° 31' N, 2° 49' W), 13-05-92, 4F + 2J, Ref. Z1236. Granada, La Puebla de Don Fadrique, Toscana Nueva (37° 53' N, 2° 23' W), 26-10-91, 5F, Ref. Z1065; Granada, Rubite, Contraviesa mountains (36° 49' N, 3° 20' W), 19-03-92, 1M + 3F + 4J, Ref. Z0988. Guadalajara, Mondéjar, road to Almoguera (40° 19' N, 3° 04' W), 13-09-91, 6J, Ref. Z1190; Guadalajara, Trillo, road to Gárgoles de Abajo (40° 42' N, 2° 36' W), 23-08-92, 3M + 4J, Ref. Z1164. Huelva, Rosal de La Frontera, Ribera Calabozza (37° 54' N, 7° 12' W), 28-03-92, 1M, Ref. Z0993; Huelva, Villanueva de los Castillejos (37° 29' N, 7° 17' W), 26-03-92, several juveniles, Ref. Z0966. León, Villamañán (42° 18' N, 5° 35' W), 25-09-92, 4M + 6F + 9J, Ref. Z1886. Madrid, Guadalix de la Sierra, road to Soto del Real (40° 46' N, 3° 43' W), 21-07-92, 1M, Ref. Z1227; Madrid, Rozas del Puerto, C-501, road to Casillas (40° 18' N, 4° 30' W), 21-07-92, 1F, Ref. Z1167. Málaga, Alameda, near La Ratosa lagoon (37° 12' N, 4° 41' W), 19-10-91, 1M, Ref. Z1080; Málaga, Casares (36° 24' N, 5° 16' W), 06-12-91, 1M + 1F + 1J, Ref. Z1041; Málaga, Coín, road to Tolox (36° 40' N, 4° 47' W), 06-12-91, 1M + 6F + 1J, Ref. Z1072; Málaga, Mijas, road to Coín (36° 35' N, 4° 39' W), 13-02-93, 1M + 1F, Ref. Z1977; Málaga, Valle de Abdalajís, road to Álora (36° 54' N, 4° 41' W), 06-12-91, 6M + 8F + 4J, Ref. Z1055. Murcia, Mazarrón, road to La Pinilla (37° 38' N, 1° 18' W), 10-04-92, 2F + 1J, Ref. Z1505. Salamanca, Ledesma (41° 05' N, 6° 01' W), 24-09-92, 2M + 2F, Ref. Z1918; Salamanca, Saucelle (41° 02' N, 6° 47' W), 23-09-92, 1M + 1F, Ref. Z1803; same locality and date, 2M + 1F + 2J in another nest, Ref. Z1815, and 2M + 4F + 4J in a third nest, Ref. Z1869; Salamanca, Valdelosa, near road N-630 (41° 12' N, 5° 42' W), 23-09-92, 1M + 2F, Ref. Z1813; same locality and date, 3M + 4F in another nest, Ref. Z1840. Toledo, Almorox (40° 14' N, 4° 22' W), 22-07-92, 8M + 8F, Ref. Z1132. Valencia, Alcira (39° 08' N, 0° 26' W), 27-04-92, 2J, Ref. Z2048; Valencia, Cortes de Pallás,

		near El Oro (39° 17' N, 0° 55' W), 25-04-92, 4F, Ref. Z2047. Valladolid, Cigales (41° 45' N, 4° 42' W), 26-09-92, 3M + 2F + 3J, Ref. Z1854. Zamora, Castronuevo, besides Valderaduey river (41° 43' N, 5° 32' W), 24-09-92, 2M + 9F + 7J, Ref. Z1901; Zamora, Pereruela, near Pubblica del Campeán (41° 24' N, 5° 49' W), 24-09-92, 1F, Ref. Z1876; Zamora, Villar del Buey, road to Fermoselle, near La Almendra pond (41° 19' N, 6° 15' W), 23-09-92, 2M + 3F + 2J, Ref. Z1836.
<i>N. wasmanni</i> (25)	ESCHERICH (1905)* (1); ALFIERI (1932)* (2); BACH & al. (1993) (3); MENDES (1980a)* (1); MOLERO & al. (1996a) (18)	–
<i>T. aurea</i> (5)	GRASSI & ROVELLI (1890)* (1); SILVESTRI (1912)* (1)	Gerona, Blanes (41° 41' N, 2° 46' E), 22-05-1992, 2M + 3F + 1J, Ref. Z1596; Tarragona, La Bisbal del Penedés, Can Gordey (41° 15' N, 1° 28' E), 18-05-1992, 1J, Ref. Z1582; Tarragona, Segur de Calafell (41° 12' N, 1° 38' E), 24-05-1992, 1F together with <i>N. crassipes</i> and <i>P. pseudolepisma</i> , Ref. Z1618.

**Tab. S1.51:** Interactions of ants identified as *Messor bouvieri* (BONDROIT, 1918) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (3)	MOLERO & al. (1998b) (3)	–
<i>N. balearica</i> (2)	MOLERO & al. (1998a) (2)	–
<i>N. crassipes</i> (3)	BACH & al. (1993) (1)	Huesca, Lalueza, road to Marcén (41° 52' N, 0° 16' W), 25-06-1992, 2M + 1F + 1J, Ref. Z1794; Tarragona, El Perelló (40° 53' N, 0° 41' E), 15-05-1992, 1M together with <i>P. pseudolepisma</i> , Ref. Z1570.
<i>N. curtiseta</i> (5)		Cáceres, Cabezuela del Valle (40° 11' N, 5° 49' W), 7-06-1991, 1F, Ref. Z0854; Granada, La Puebla de Don Fadrique, road to Huéscar (37° 53' N, 2° 26' W), 25-10-1991, 5M + 5F together with <i>N. spectabilis</i> , Ref. Z2056; Valencia, Requena, road to Casas del Río (39° 20' N, 1° 07' W), 25-04-1992, 6M + 2F + 2J, Ref. Z1439; Zaragoza, Ariza, road to Bortalba (41° 21' N, 2° 04' W), 20-06-1992, 6M + 3F Ref. Z1753; Formentera (Balearic Islands), Punta des Faro (38° 39' N, 1° 34' E), 13-05-1992, 3M, Ref. Z1291.
<i>N. foreli</i> (4)	MOLERO & al. (1994c)* (1)	Albacete, Férez, road to Elche de la Sierra (38° 24' N, 2° 0' W), 27-10-1991, 1M + 1F, Ref. Z1107. Almería, Tíjola, road to Serón (37° 20' N, 2° 23' W), 16-04-92, 1M + 1F, Ref. Z0892. Murcia, Yecla, sierra de Las Pansas (38° 28' N, 1° 08' W), 14-04-92, 2M + 2J, Ref. Z1458.
<i>N. spectabilis</i> (18)	BACH & GAJU (1987) (1); MOLERO & al. (1992) (2)	Almería, Turre, Aguas river (37° 08' N, 1° 55' W), 10-04-92, 1M, Ref. Z0882. Cáceres, Hernán Pérez, CC-513, Km 48 (40° 12' N, 6° 29' W), 08-06-91, 1M, Ref. Z0760. Cuenca, Gascueña (40° 18' N, 2° 30' W), 19-08-92, 5M + 4F, Ref. Z1104. Granada, La Puebla de Don Fadrique, road to Huéscar (37° 53' N, 2° 26' W), 25-10-91, 4F, Ref. Z1077. Granada, Órgiva, road to Ugíjar, near detour to Albuñol (36° 52' N, 3° 22' W), 19-03-92, 1M + 1F, Ref. Z1002. Murcia, Águilas, Cope cape (37° 26' N, 1° 29' W), 10-04-92, 1M, Ref. Z1386. Murcia, Cartagena, near Canteras (37° 36' N, 1° 03' W), 10-04-92, 1M + 2J, Ref. Z1371. Murcia, Mazarrón, road to La Pinilla (37° 38' N, 1° 18' W), 10-04-92, 6M + 1F + 1J, Ref. Z1506. Salamanca, Ledesma (41° 05' N, 6° 01' W), 24-09-92, 1M, Ref. Z1834. Segovia, near arroyo Tejadilla (40° 56' N, 4° 09' W), 27-09-92, 1F + 1J, Ref. Z1915. Valencia, Bicorp, road to Quesa (39° 07' N, 0° 46' W), 26-04-92, 4M + 4F + 2J, Ref. Z1347. Valencia, Casinos, pine-tree forest near road to Villar del Arzobispo (39° 42' N, 0° 45' W), 29-04-92, 8F + 1J, Ref. Z1337. Valencia, La Llosa de Ranés, N-340, Km 852 (39° 01' N, 0° 33' W), 02-11-91, 1M, Ref. Z1352. Valencia, Chera, road to Sot de Chera (39° 35' N, 0° 57' W), 29-04-92, 6F + 1J, Ref. Z1507. Zamora, Peñausende, near Tamame (41° 18' N, 5° 52' W), 24-09-92, 2M, Ref. Z1850.
<i>N. wasmanni</i> (6)	MOLERO & al. (1996a) (5)	Granada, Baza, road to Cúllar (37° 30' N, 2° 43' W), 25-10-1991, 8M + 9F + 5J Ref. Z1018 (published erroneously in MOLERO & al. (1994b) as with <i>M. barbarus</i> ).
<i>T. aurea</i> (1)	HANDSCHIN (1927)* (1)	–



**Tab. S1.52:** Interactions of ants identified as *Messor capitatus* (LATREILLE, 1798) with silverfish; cf. indicates that the identification of the ant is not sure.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (8)	MOLERO & al. (1998b) (8)	–
<i>N. balearica</i> (1)	MOLERO & al. (1998a) (1)	–
<i>N. crassipes</i> (8)		Barcelona, Caserras, road to Gironella (42° 01' N, 1° 50' E), 23-05-92, 1F, Ref. Z1634. Huesca, Benabarre, road to Lérida (42° 23' N, 0° 27' E), 14-07-92, 1M + 2J, Ref. Z1760. Huesca, Riglos (42° 20' N, 0° 43' W), 11-07-92, 2M + 2F, Ref. Z1722. Lérida, Alfarrás, road to Tamarite de Litera (41° 50' N, 0° 33' E), 26-06-92, 8M + 2F together with <i>N. wasmanni</i> and <i>P. pseudolepisma</i> , Ref. Z1588. Lérida Os de Balaguer, road to Balaguer, Serra del Convent (41° 52' N, 0° 44' E), 15-07-92, 1F, Ref. Z1624. Zaragoza, Belchite, Pueyo sanctuary (41° 18' N, 0° 50' W), 27-06-92, 2M together with <i>N. wasmanni</i> and <i>P. pseudolepisma</i> , Ref. Z1791. Zaragoza, Luna, road to Erla (42° 09' N, 0° 56' W), 24-06-92, 3M + 2F, Ref. Z1659. Zaragoza, Santa Cruz del Moncayo (41° 52' N, 1° 45' W), 21-06-92, 2F + 2J, Ref. Z1798.
<i>N. curtiseta</i> (16)	MENDES (1980a)* (2); MENDES (1988)* (as <i>M. sancta</i> ) (1)	Burgos, Santo Domingo de Silos (41° 57' N, 3° 24' W), 26-08-92, 1M + 4F + 4J, Ref. Z1922. Guadalajara, Herrería (40° 53' N, 1° 57' W), 22-08-92, 2M, Ref. Z1127. León, Cebanico, from Valmartino to Almanza (42° 43' N, 5° 02' W), 25-09-92, 1M + 1F, Ref. Z1864; same locality and date, 1M + 12F + 3J in another nest, Ref. Z1942. León, Paradaseca, road to Villafranca del Bierzo (42° 40' N, 6° 47' W), 13-7-1991, 1M, Ref. Z1846. Soria, Abejar (41° 46' N, 2° 46' W), 25-08-92, 2M + 2F + 2J, Ref. Z1866. Soria, Alpanseque, Altos de Barahona (41° 16' N, 2° 42' W), 24-08-92, 1M + 2J, Ref. Z1856. Soria, Deza (41° 28' N, 2° 02' W), 20-06-92, 1M + 1F, Ref. Z1844. Soria, Villasayas, road to Barahona (41° 20' N, 2° 36' W), 24-08-92, 3M + 3F, Ref. Z1939. Teruel, Albentosa (40° 06' N, 0° 47' W), 14-05-92, 4F + 3J, Ref. Z1790; Teruel, Bañón (40° 49' N, 1° 10' W), 22-08-92, 2M, Ref. Z1737. Teruel, Camarillas, road to Aliaga (40° 37' N, 0° 45' W), 21-08-92, 6M + 7F, Ref. Z1782; Teruel, Cañizar del Olivar, Puerto de las Traviesas (40° 48' N, 0° 39' W), 21-08-92, 3M + 3F + 1J together with <i>P. pseudolepisma</i> , Ref. Z1775.
<i>N. foreli</i> (3)	MENDES (1980a)* (as <i>M. sancta</i> ) (1)	Castellón, Benicasim, Desierto de las Palmas (40° 04' N, 0° 02' E), 28-4-1992, 2F, Ref. Z1512. Valencia, Cofrentes (39° 13' N, 1° 05' W), 25-4-92, 1M together with <i>N. gauthieri</i> , Ref. Z1482.
<i>N. gauthieri calva</i> (1)		Valencia, Cofrentes (39° 13' N, 1° 05' W), 25-4-92, 2M + 1F together with <i>N. foreli</i> , Ref. Z1481.
<i>N. lusitana</i> (8)	MENDES (1980a)* (as <i>M. sancta</i> ) (1)	Cuenca, Gascueña (40° 18' N, 2° 30' W), 19-08-92, 1M + 1F, Ref. Z1103. Guadalajara, Brihuega (40° 45' N, 2° 50' W), 23-08-92, 1M together with <i>N. spectabilis</i> , Ref. Z1199. Guadalajara, Casas de San Galindo, road to Jadraque (40° 52' N, 2° 57' W), 23-08-92, 2M + 2F together with <i>P. pseudolepisma</i> , Ref. Z1222; Guadalajara, Retiendas, road to Tamajón (40° 58' N, 3° 16' W), 22-08-92, 1M + 1F together with <i>N. spectabilis</i> , Ref. Z1136; León, Valdepolo (42° 34' N, 5° 13' W), 25-09-92, 1M + 2F + 8J, Ref. Z1845; Madrid, Valdemorillo, next to Pino-Alto (40° 30' N, 4° 03' W), 20-07-92, 1M, Ref. Z1258. Palencia, Baltanás, road to Cevico Navero (41° 54' N, 4° 13' W), 26-09-92, 1M + 1F, Ref. Z1892.
<i>N. soerenseni</i> (1)	MENDES (1980a)* (as <i>M. sancta</i> ) (1)	–
<i>N. spectabilis</i> (22)	BACH & GAJU (1987) (1); MENDES (1980a)* (3), MENDES (2002a)* (3), as <i>M. sancta</i>	Albacete, Robledo (38° 44' N, 2° 27' W), 24-04-92, 2F, Ref. Z1210. Almería, María (37° 42' N, 2° 09' W), 26-10-91, 1F, Ref. Z1069. Ávila, El Hoyo de Pinares, road to Valdemaqueda (40° 30' N, 4° 23' W), 20-07-92, 3M + 4F, Ref. Z1925. Ávila, Muñana, road to Las Fuentes mountain pass (40° 37' N, 5° 02' W), 22-09-92, 1M + 1J, Ref. Z1832. Castellón, Bejis (39° 54' N, 0° 42' W), 21-04-92, 2F + 3J, Ref. Z1438. Ciudad Real, Santa Cruz de los Cábanos (38° 37' N, 2° 51' W), 30-04-92, 3M + 4F, Ref. Z1084. Granada, Castril, road to Benamaurel (37° 47' N, 2° 46' W), 1F, Ref. Z1044. Guadalajara, Brihuega (40° 45' N, 2° 50' W), 23-08-92, 8F + 5J, Ref. Z1198. Guadalajara, Retiendas, road to Tamajón (40° 58' N, 3° 16' W), 22-08-92, 2M

		+ 3F, Ref. Z1135. Huelva, Bollullos del Condado, road to La Palma del Condado (37° 21' N, 6° 32' W), 31-03-92, 4M + 3F + 4J, Ref. Z0920. Segovia, Sepúlveda (41° 17' N, 3° 46' W), 27-08-92, 6M + 8F, Ref. Z1882. Sevilla, Aznalcóllar, road to Escacena (37° 29' N, 6° 18' W), 27-03-92, 1F, Ref. Z0930. Valencia, Aras de Alpuente, road to Santa Cruz de Moya (39° 56' N, 1° 09' W), 14-05-92, 4M, Ref. Z1519. Valencia, Cofrentes (39° 13' N, 1° 05' W), 25-04-92, 2M + 1F + several juveniles, Ref. Z1483. Zamora, Ferroselle, near Tormes river (41° 16' N, 6° 23' W), 23-09-92, 1M + 3F + 3J, Ref. Z1817.
<i>N. wasmanni</i> (5)	MOLERO & al. (1996a) (5)	–

**Tab. S1.53:** Interactions of ants identified as *Messor hispanicus* SANTSCHI, 1919 with silverfish; cf. indicates that the identification of the ant is not sure.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (5)	MOLERO & al. (1998b) (5)	–
<i>N. curtiseta</i> (3*)		Albacete, Peñas de San Pedro, near La Solana (38° 44' N, 2° 0' W), 30-04-92, 2M + 3F + 6J, together with <i>N. gauthieri calva</i> and <i>P. pseudolepisma</i> , Ref. Z1183. Ávila, Navatalgordo (40° 24' N, 4° 51' W), 21-07-92, 1M + 2F, Ref. Z1949. Cuenca, Campillos-Paravientos, road from Cañete to Landete (39° 58' N, 1° 33' W), 14-05-92, 4M + 8F + 1J together with <i>P. pseudolepisma</i> , Ref. Z1247.
<i>N. foreli</i> (1*)		Albacete, Carcelén, road to Casas de Juan Gil (39° 16' N, 1° 06' W), 25-04-1992, 1M, Ref. Z1219.
<i>N. gauthieri calva</i> (1*)		Albacete, Peñas de San Pedro, near La Solana (38° 44' N, 2° 0' W), 30-04-92, 2M + 3F + 6J, together with <i>N. curtiseta</i> and <i>P. pseudolepisma</i> , Ref. Z1182.
<i>N. lusitana</i> (3*)		Albacete, El Bonillo, road to Lezuza (38° 56' N, 2° 28' W), 20-04-92, 4M + 1F + 2J together with <i>N. spectabilis</i> , Ref. Z1121 (cf.). Guadalajara, Tamajón, road to Cogolludo, near Sorbe river (40° 59' N, 3° 12' W), 25-08-92, 1M together with <i>N. spectabilis</i> , Ref. Z1081 (cf.). León, Valdepolo (42° 34' N, 5° 13' W), 25-09-92, 3M + 1F, Ref. Z1867 (cf.).
<i>N. spectabilis</i> (6*)		Albacete, El Bonillo, road to Lezuza (38° 56' N, 2° 28' W), 20-04-92, 1M + 4J, Ref. Z1120. Albacete, Paterna del Madera, near Riópar towards El Barrancazo mountain pass (38° 33' N, 2° 20' W), 27-10-91, 2J, Ref. Z1188. Cuenca, Fuentes, road to Rocho mountain pass (39° 56' N, 2° 0' W), 14-05-92, 7M + 6F + 3J, Ref. Z1142. Guadalajara, El Pedregal (40° 46' N, 1° 34' W), 22-08-92, 5M + 6F + 9J, Ref. Z1123. Guadalajara, Tamajón, road to Cogolludo, near Sorbe river (40° 59' N, 3° 12' W), 25-08-92, 1M + 1J, Ref. Z1082. Valencia, Sinarcas, road to La Torre de Utiel (39° 42' N, 1° 14' W), 24-5-1992, 2M + 1F + 4J, Ref. Z1470.

**Tab. S1.54:** Interactions of ants identified as *Messor structor* (LATREILLE, 1798) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>A. formicaria</i> (1)	SILVESTRI (1942)* as <i>M. rufitarsis</i> (1)	–
<i>P. pseudolepisma</i> (6)	MOLERO & al. (1992) (1), MOLERO & al. (1998b) (5)	–
<i>L. chlorosoma</i> (1)		Palencia, Husillos (42° 05' N, 4° 30' W), 27-09-92, 2M + 3F + 4J, Ref. Z1931.
<i>N. balearica</i> (1)	MOLERO & al. (1998a) (1)	–
<i>N. crassipes</i> (10)		Barcelona, Els Prats del Rei, road from Igualada to Calaf, near La Manresana dels Prats (41° 41' N, 1° 32' E), 20-05-92, 4M + 4F + 11J together with <i>N. wasmanni</i> , Ref. Z1627. Barcelona, Sant Quirze Safaja, road from San Feliú de Codines to

		Centelles (41° 43' N, 2° 10' E), 23-05-92, 6M + 4F + 5J, Ref. Z1559. Guadalajara, Sigüenza (41° 01' N, 2° 39' W), 24-08-92, 1M + 5F + 5J, Ref. Z1092. Huesca, Loarre (42° 18' N, 0° 39' W), 24-06-92, 4M + 3F + several juveniles, Ref. Z1748; Huesca, Loporzano, near Sipan (42° 10' N, 0° 17' W), 09-07-92, 1M + 2F + 1J together with <i>N. wasmanni</i> , Ref. Z1788. Lérida, Agramunt, road to Tárrega (41° 44' N, 1° 06' E), 20-05-92, 1M + 9F together with <i>N. wasmanni</i> , Ref. Z1615. Lérida, Isona, Pas de Finestres (42° 07' N, 1° 04' E), 16-07-92, 3M + 2F + 8J, Ref. Z1564. Tarragona, El Pla de Santa María, road to El Pont de Armentera (41° 22' N, 1° 19' E), 18-05-92, 1M + 1F + 3J together with <i>P. pseudolepisma</i> , Ref. Z1574. Tarragona, Horta de Sant Joan, road to Bot (40° 58' N, 0° 19' E), 24-05-92, 6M + 2F + 5J, Ref. Z1580. Tarragona, Santa Coloma de Queralt, road to Vallfogona de Riucorb (41° 32' N, 1° 21' E), 19-05-92, 3J, Ref. Z1631.
<i>N. curtiseta</i> (2)		Soria, San Leonardo de Yagüe, road to Río Lobos canyon (41° 48' N, 3° 05' W), 25-08-92, 10M + 7F + 1J, Ref. Z1887. Teruel (40° 21' N, 1° 05' W), 21-08-92, 1M together with <i>N. wasmanni</i> , Ref. Z1755.
<i>N. foreli</i> (1)	MOLERO & al. (1992) (1)	–
<i>N. lusitana</i> (3)	MOLERO & al. (1992) (1)	Palencia, Fuentes de Valdepero (42° 05' N, 4° 30' W), 25-09-92, 1F + 2J together with <i>N. spectabilis</i> , Ref. Z1948. Toledo, Noblejas (39° 58' N, 3° 24' W), 16-09-91, 1F together with <i>N. spectabilis</i> , Ref. Z1150.
<i>N. spectabilis</i> (10)	BACH & GAJU (1987) (2); MOLERO & al. (1992) (1)	Cáceres, Guijo de Santa Bárbara, Garganta de Jaranda, southern Gredos mountains (40° 09' N, 5° 39' W), 29-03-91, 1J, Ref. Z0797. Cáceres, Navaconcejo, Jerte valley (40° 10' N, 5° 50' W), 28-03-91, 1M, Ref. Z0832. Ciudad Real, Almuradiel, N-IV, Km 237 (38° 29' N, 3° 30' W), 29-12-82, 1F, Ref. Z0064. Jaén, Quesada, near Tíscar mountain pass, 1150 m (37° 47' N, 3° 03' W), 24-10-91, 1F + 2J, Ref. Z1052. Madrid, Pozuelo del Rey (40° 22' N, 3° 20' W), 13-09-91, 1M + 5F + 10J, Ref. Z1197. Palencia, Fuentes de Valdepero (42° 05' N, 4° 30' W), 25-09-92, 5M + 1F + 3J, Ref. Z1947. Toledo, Noblejas (39° 58' N, 3° 24' W), 16-09-91, 3F + 3J, Ref. Z1149.
<i>N. wasmanni</i> (6)	MOLERO & al. (1996b) (4)	Cuenca, Iniesta, road to Tarazona de la Mancha (39° 24' N, 1° 47' W), 26-05-1992, 2M + 2F, Ref. Z1242. Lérida, Ponts (41° 54' N, 1° 10' E), 19-05-1992, 5M + 10F + 7J, Ref. Z1569.
<i>T. aurea</i> (3)	SILVESTRI (1912)* (1); MENDES (1980a)* as <i>M. rufitarsis</i> (1)	Barcelona, Montseny (41° 45' N, 2° 24' E), 23-5-1992, 7M + 2F + 1J, Ref. Z1573.

**Tab. S1.55:** Interactions of ants identified as *Messor* sp. with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (11)	MENDES (1980a)* (1), MOLERO & al. (1998b)* (10)	–
<i>L. saccharina</i> (1*)		Valencia, Ayora, road to Zarra (39° 04' N, 1° 04' W), 25-04-1992, 1M + 1J together with <i>N. spectabilis</i> , Ref. Z2052.
<i>N. angustothoracica</i> (1)	MOLERO & al. (2000)* (1)	–
<i>N. crassipes</i> (8)	MENDES (1980b)* (2); MOLERO & al. (2000) (2); MENDES (2002b)* (1)	Lérida, Ager, Sierra del Montsec (42° 01' N, 0° 44' E), 15-07-92, 7M + 8F + 10J together with <i>P. pseudolepisma</i> , Ref. Z1592. Tarragona, Prades (41° 17' N, 1° 0' E), 18-05-92, 2M + 2F + 7J together with <i>P. pseudolepisma</i> , Ref. Z1560; Zaragoza, Nuévalos, near Monasterio de Piedra (41° 11' N, 1° 46' W), 27-06-92, 3M together with <i>N. wasmanni</i> , Ref. Z1735.
<i>N. curtiseta</i> (8)		Burgos, Santo Domingo de Silos (41° 57' N, 3° 24' W), 26-08-92, 8M + 2F + 3J, Ref. Z1934. Huesca, Berdún (42° 35' N, 0° 49' W), 10-07-92, 5M + 2F, Ref. Z1751; Madrid, Cercedilla (40° 44' N, 4° 02' W), 21-07-92, 3M + 1F, Ref. Z1117; Soria, Berlanga de Duero (41° 28' N, 2° 51' W), 24-08-92, 1F + several juveniles, Ref. Z1954; Soria, Garray, near Numancia ruins (41° 48' N, 2° 26' W), 26-08-92, 1M + 2F + 9J, Ref. Z1858; Teruel, Escorialhuela

		(40° 31' N, 0° 57' W), 21-08-92, 2M + 4F, Ref. Z1719. Zaragoza, Miedes, road from Cariñena to Calatayud, C-221, Km 22,8 (41° 15' N, 1° 25' W), 27-06-92, 3F, Ref.Z1692. Same locality and date, 4M +3F, Ref. Z1802.
<i>N. foreli</i> (6)	MENDES (1980a)* (1), MENDES (1988)* (1), MENDES (1992)* (1), MOLERO & al. (1994b)* (1)	Albacete, Alcalá del Júcar, road to Casas de Ves (39° 13' N, 1° 24' W), 25-04-92, 8M + 5F + 7J together with <i>N. lusitana</i> , Ref. Z1145. Castellón, Val de Uxó, road to Algar (39° 47' N, 0° 15' W), 29-04-92, 2M + 1F, Ref. Z1487.
<i>N. lusitana</i> (10)	MENDES (2002a)* (4)	Albacete, Alcalá del Júcar, cruce a Casas de Ves (39° 13' N, 1° 24' W), 25-04-92, 8M + 5F + 7J together with <i>N. foreli</i> , Ref. Z1146. Badajoz, Jerez de los Caballeros (38° 19' N, 6° 48' W), 29-03-92, 6M + 1F + 1J together with <i>N. spectabilis</i> , Ref. Z0868. Burgos, Castrojeriz (42° 16' N, 4° 06' W), 26-09-92, 1J together with <i>P. pseudolepisma</i> , Ref. Z1896. Cádiz, Olvera (36° 56' N, 5° 13' W), 1-11-1994, 2M + 2F, Ref. Z2132. Sevilla, Coria del Río, Isla Menor grassland (37° 12' N, 6° 01' W), 25-03-92, 3M + 3F + 1J together with <i>N. spectabilis</i> and <i>N. soerenseni</i> , Ref. Z1011. Valladolid, Vitoria (41° 27' N, 4° 22' W), 27-09-92, 1M together with <i>N. spectabilis</i> , Ref. Z1862.
<i>N. myrmecobia</i> (1)	MENDES (1993)* (1)	–
<i>N. soerenseni</i> (7)	MOLERO & al. (1994c)* (4), MENDES (2002a)* (2)	Sevilla, Coria del Río, Isla Menor grassland (37° 12' N, 6° 01' W), 25-03-92, 4M together with <i>N. spectabilis</i> and <i>N. lusitana</i> , Ref. Z1013.
<i>N. spectabilis</i> (32)	MENDES (1980a)* (2), BACH & GAJU (1987) (1), MENDES (1988)* (1), MENDES (1992)* (1), MOLERO & al. (1992) (1), MENDES (2002a)* (12)	Ávila, Muñogalindo (40° 36' N, 4° 52' W), 22-09-92, 1F, Ref. Z1841. Ávila, Ojos-Albos (40° 42' N, 4° 31' W), 22-09-92, 1M + 1F + 3J, Ref. Z1805; same locality and date, 1J in another nest, Ref. Z1824. Badajoz, Jerez de los Caballeros (38° 19' N, 6° 48' W), 29-03-92, 6M + 1F + 1J together with <i>N. lusitana</i> , Ref. Z0867. Barcelona, Olost, road to Vic (41° 57' N, 2° 08' E), 23-05-92, 6F, Ref. Z1555. Castellón, Albocácer, road to Benassal (40° 21' N, 0° 01' W), 28-04-92, 4F, Ref. Z1441. Palencia, Fuentes de Valdepero (42° 05' N, 4° 30' W), 25-09-92, 7J, Ref. Z1958. Salamanca, Puente de La Salud (40° 57' N, 5° 42' W), 08-04-73, 1M + 1F, Ref. Z1907. Segovia, Maderuelo, road C-114 to Fuentelcésped (41° 33' N, 3° 33' W), 27-08-92, 11M + 6F, Ref. Z1911. Segovia, Villacastín (40° 46' N, 4° 26' W), 22-09-92, 2M + 1F + 2J, Ref. Z1821. Sevilla, Coria del Río, Isla Menor grassland (37° 12' N, 6° 01' W), 25-03-92, 6M + 10F + 2J together with <i>N. lusitana</i> and <i>N. soerenseni</i> , Ref. Z1012. Valencia, Ayora, road to Zarra (39° 04' N, 1° 04' W), 25-04-1992, 1F + 1J together with <i>L. saccharina</i> , Ref. Z1389. Valladolid, Vitoria (41° 27' N, 4° 22' W), 27-09-92, 2F together with <i>N. lusitana</i> , Ref. Z1861. Zamora, Ferreras de Abajo, road from Tábara to Sanabria (41° 52' N, 6° 0' W), 24-09-92, 1F, Ref. Z1908.
<i>N. wasmanni</i> (2)	MOLERO & al. (1996a)* (2)	–
<i>T. aurea</i> (4)	MENDES (1980a)* (1); MENDES (1988)* (1); MOLERO & al. (2000) (1); MENDES (2002b)* (1)	–

**Tab. S1.56:** Interactions of ants of the genus *Myrmica* LATREILLE, 1804 with silverfish. Species *M. rubra* (LINNAEUS, 1758). One interaction from the literature, none reported in Spain.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>A. formicaria</i> (1)	ESCHERICH (1905), reported as <i>Myrmica laevinodis</i>	–

**Tab. S1.57:** Number of interactions of ants of the genus *Pheidole* with silverfish. Eight interactions, four of them reported in Spain, none of them new. 56 samples for Spain for statistic study (48 of them previously published), 13 additional Western-Palaeartic data from literature not included in statistics.

<i>Pheidole</i> species	Pp	Lb	Lc	Np	Tot	Lit stat	Lit not incl
<i>Pheidole pallidula</i>	44	2	9	1	56	48	13

**Tab. S1.58:** Detailed references of interactions of ants identified as *Pheidole pallidula* or *Pheidole* sp. with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>A. formicaria</i> (1)	SILVESTRI (1942)* (1)	–
<i>P. pseudolepisma</i> (49)	MENDES (1980a)* (2), MENDES (1981)* (1), MENDES (1982*) (1), BACH & GAJU (1987) (3), MOLERO & al. (1992) (3), MOLERO & al. (1998) (38), MENDES (2002a)* (1)	–
<i>L. baetica</i> (2)	MOLERO & al. (1994a) (2)	–
<i>L. chlorosoma</i> (11)	MENDES (1980a)* (1), MENDES (1988)* (1), MOLERO & al. (1992) (1)	Cáceres, Guijo de Granadilla, near Gabriel y Galán pond (40° 12' N, 6° 10' W), 08-06-91, 2M + 1F, Ref. Z0803; Cáceres, Hernán-Pérez, CC-513, Km 48 (40° 12' N, 6° 29' W), 08-06-91, 1M, Ref. Z0816. Same locality and date, 1F in another nest, Ref Z0848. Huelva, Jabugo, road to Castaño del Robledo (37° 53' N, 6° 43' W), 30-03-92, 1J, Ref. Z0932. Madrid, Robledo de Chavela (40° 29' N, 4° 15' W), 20-07-92, 3M, Ref. Z1097. Toledo, Las Ventas con Peña Aguilera, El Milagro mountain pass (39° 33' N, 4° 14' W), 12-09-91, 1M, Ref. Z1207. Zamora, Faramontaos de Tábara, near Esla river (41° 50' N, 5° 48' W), 24-09-92, 2J, Ref. Z1904. Same locality and date, 1F in another nest, Ref. Z1963.
<i>N. pallida</i> (1)	MOLERO & al. (1995b) (1)	–
<i>N. soerenseni</i> (1)	MOLERO & al. (1994c) (1)	–
<i>N. spectabilis</i> (1)	MENDES (1988)* (1)	–
<i>T. aurea</i> (1)	MENDES (1980a)* (1)	–

**Tab. S1.59:** Number of interactions of ants of the genus *Plagiolepis* MAYR, 1861 with silverfish. Two interactions, one of them reported in Spain, none of them new. One sample for Spain for statistic study (previously published), one additional Western-Palaeartic data from literature not included in statistics.

<i>Plagiolepis</i> species	Pp	Tot	Lit stat	Lit not incl
<i>Plagiolepis pygmaea</i>	1	1	1	1

**Tab. S1.60:** Detailed references of interactions of ants identified as *Plagiolepis pygmaea* (LATREILLE, 1798) or *Plagiolepis* sp. with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>A. montana</i> (1)	MENDES (1981)* (1)	–
<i>P. pseudolepisma</i> (1)	MOLERO & al. (1998b) (1)	–

**Tab. S1.61:** Number of interactions of ants of the genus *Tapinoma* FÖRSTER, 1850 with silverfish. Four interactions, three of them reported in Spain, one of them new. Seven samples for Spain for statistic study (six previously published), one additional Western-Palaeartic data from literature not included in statistics.

<i>Tapinoma</i> species	Pp	Lc	Tot	Lit stat	Lit not incl
<i>Tapinoma erraticum</i>	1	1	2	1	0
<i>T. nigerrimum</i>	4		4	4	0
<i>Tapinoma</i> sp.	1		1	1	1

**Tab. S1.62:** Detailed references of interactions of ants identified as *Tapinoma erraticum* (LATREILLE, 1798) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (1)	MOLERO & al. (1998b) (1)	–
<i>L. chlorosoma</i> (1)		Zamora, Villar del Buey, road to Fermoselle (41° 19' N, 6° 12' W), 23-9-1992, 1F, Ref. Z1837.

**Tab. S1.63:** Detailed references of interactions of ants identified as *Tapinoma nigerrimum* (NYLANDER, 1856) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (4)	MOLERO & al. (1998b) (4)	–

**Tab. S1.64:** Detailed references of interactions of ants identified as *Tapinoma* sp. with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (1)	MOLERO & al. (1998b) (1)	–
<i>L. saccharina</i> (1)	MENDES (1980)* (a)	–

**Tab. S1.65:** Number of interactions of ants of the genus *Temnothorax* MAYR, 1861 with silverfish. Five interactions, four of them reported in Spain, none of them is new. Six samples for Spain for statistic study (five of them previously published), five additional Western-Palaearctic data from literature not included in statistics.

<i>Temnothorax</i> species	Pp	Lb	Nl	N sp	Total	Lit stat	Lit not incl
<i>Temnothorax</i> sp.	2	2	1	1	6	5	5

**Tab. S1.66:** Detailed references of interactions of ants identified as *Temnothorax* sp. with silverfish (most of them referred as *Leptothorax* sp. in the literature).

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (6)	Wasmann, referred by ESCHERICH, (1903)* (1); MENDES (1980a)* (1); MOLERO & al. (1992) (2); MENDES (2002a)* (2)	–
<i>L. baetica</i> (2)	MOLERO & al (1994a)* (1)	Jaén, Huelma, road to Jódar (37° 40' N, 3° 23' W), 18-8-1988, 4J, Ref. Z0381.
<i>N. hesperica</i> (1)	MENDES (1980a)* (1)	–
<i>N. lusitana</i> (1)	MOLERO & al. (1992) (1)	–
<i>N. spectabilis</i> (1)	MOLERO & al. (1992) (1)	–

**Tab. S1.67:** Number of interactions of ants of the genus *Tetramorium* with silverfish. Fifteen interactions, 13 of them reported in Spain, six of them new. 45 samples for Spain for statistic study (28 previously published), seven additional Western-Palaearctic data from literature not included in statistics.

<i>Tetramorium</i> species	Av	Pp	Lb	Lc	Ls	Nw	Ta	Tot	Lit stat	Lit not incl
<i>Tetramorium caespitum</i>		5		2	1	1		9	6	4
<i>T. forte</i>		12		6	1			19	12	0
<i>T. cf. meridionale</i>		1						1	1	0
<i>T. semilaeve</i>	1	4	3	3			1	12	5	1
<i>Tetramorium</i> sp.		4						4	4	2

**Tab. S1.68:** Detailed references of interactions of ants identified as *Tetramorium caespitum* with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>A. formicaria</i> (4)	HEYDEN (1855)* (1) DALLA TORRE (1888)* (1) ESCHERICH (1903)* (1); SILVESTRI (1942)* (1)	–
<i>P. pseudolepisma</i> (5)	MOLERO & al. (1992) (1); MOLERO & al. (1998b) (4)	–
<i>L. chlorosoma</i> (2)		Badajoz, Cabeza del Buey (38° 43' N, 5° 12' W), 6-6-1991, 1M + 1F, Ref. 0775. Palencia, Fuentes de Valdepero (42° 05' N, 4° 30' W), 25-9-1992, 1F + 1J together with <i>P. pseudolepisma</i> , Ref. Z1875.
<i>L. saccharina</i> (1)		Zaragoza, Santa Cruz del Moncayo (41° 52' N, 1° 45' W), 21-6-1992, 1J, Ref. Z1800.
<i>N. wasmanni</i> (1)	MOLERO & al. (1996a) (1)	–

**Tab. S1.69:** Detailed references of interactions of ants identified as *Tetramorium forte* (FOREL, 1904) with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (12)	MOLERO & al. (1998b) (12), as <i>T. hispanicum</i>	–
<i>L. chlorosoma</i> (6)		Madrid, Valdemorillo (40° 30' N, 4° 03' W), 20-07-92, 1M + 2F, Ref. Z1259. Palencia, Villarrabé, road from Saldaña to Sahagún (42° 25' N, 4° 48' W), 25-09-92, 7M + 5F + 1J, Ref. Z1957. Toledo, Guadamur (39° 49' N, 4° 10' W), 12-09-91, 2M + 1F, Ref. Z1230; Zamora, Ferreras de Abajo, road from Tábara to Sanabria (41° 52' N, 6° 0' W), 24-09-92, 11M + 5F + 2J, Ref. Z1941. Zamora, Olmillos de Castro, near San Martín de Tábara (41° 44' N, 5° 59' W), 21-09-89, 1M, Ref. Z1894. Zamora, Villar del Buey, road to Fermoselle (41° 19' N, 6° 12' W), 23-09-92, 1J, Ref. Z1826.
<i>L. saccharina</i> (1)		Huelva, Almonte (37° 13' N, 6° 30' W), 17-5-1988, 1M, Ref. Z0441.

**Tab. S1.70:** Detailed references of interactions of ants identified as *Tetramorium cf. meridionale* EMERY, 1870 with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>P. pseudolepisma</i> (1)	MOLERO & al. (1998b) (1)	–

**Tab. S1.71:** Detailed references of interactions of ants identified as *Tetramorium semilaeve* (ANDRÉ, 1883) or *T. cf. semilaeve* with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>A. valenciana</i> (1)	MOLERO & al. (1998b) (1)	–
<i>P. pseudolepisma</i> (4)	MOLERO & al. (1998b) (4)	–
<i>L. baetica</i> (3)		Minorca island (Balearics), Alaior, Es Bec Nou (39° 57' N, 4° 05' E), 21-09-91, 5M + 2F + 1J, Ref. Z0643. Minorca island, Es Mercadal, Cala Binimella (40° 02' N, 4° 03' E), 20-09-91, 1M, Ref. Z0644. Cádiz, Alcalá de los Gazules, road to Ubrique, near Sierra del Aljibe (36° 31' N, 5° 38' W), 06-05-92, 2M + 4F, Ref. Z0955.
<i>L. chlorosoma</i> (3)	MENDES (1980a) (1)	Badajoz, Jerez de los Caballeros (38° 19' N, 6° 48' W), 29-03-92, 2M + 2F; Ref. Z0872. Cáceres, Castañar de Ibor (39° 38' N, 5° 25' W) 07-06-91, 1M

<i>T. aurea</i> (1)	+ 2F, Ref. Z0846. Cáceres, Garganta la Olla (40° 06' N, 5° 47' W), 07-06-91, 2M + 8F, Ref. Z0807.
	Minorca island (Balearics), Es Mercadal, Cala Binimella (40° 02' N, 4° 03' E), 2F, Ref. Z0646.

**Tab. S1.72:** Detailed references of interactions of ants identified as *Tetramorium* sp. with silverfish.

Species of <i>Zygentoma</i> (number of samples)	Literature references	New data
<i>A. formicaria</i> (2)	MOLERO & al. (2000) (2)	–
<i>P. pseudolepisma</i> (4)	BACH & GAJU (1987) (4)	–

## Summary

193 *Zygentoma*-Formicoidea associations are included. 157 of them have been detected in Spain; 41 of them are new (reported for the first time). 834 samples from Spain have been included in the statistical study of the main paper, 398 of them previously published (included in papers detailed in Table S1.73).

225 additional samples or references included in the literature are taken into account but not included into the statistic study. In total, 1059 reports of interactions *Zygentoma*-ants in the West Palaearctic Region have been considered for conclusions of this work.

**Tab. S1.73:** Papers where samples of silverfish with ants in Spain have been previously reported by the authors. All of them are considered for the analysis of the main paper, together with new data given in this Appendix. (\* = geographic coordinates and/or maps are given in the paper).

References	Number of localities sampled	Number of samples of silverfish studied (with / without ants)
GAJU-RICART & BACH DE ROCA (1986) and BACH DE ROCA & GAJU-RICART (1987)	18*	39 / 11
GAJU-RICART, BACH DE ROCA & MOLERO-BALTANÁS (1987)	11*	6 / 13
MOLERO-BALTANÁS, BACH DE ROCA & GAJU-RICART (1992)	214*	66 / 246
BACH, GAJU, MENDES & MOLERO (1993)	1	5 / 29
MOLERO-BALTANÁS, GAJU-RICART, BACH DE ROCA & MENDES (1994a)	2	0 / 2
MOLERO-BALTANÁS, GAJU-RICART, BACH DE ROCA & MENDES (1994b)	52*	32 / 29
MOLERO-BALTANÁS, MENDES, GAJU-RICART & BACH DE ROCA (1994c)	16*	20 / 0
MOLERO-BALTANÁS, R., BACH DE ROCA, C. & GAJU-RICART, M. (1995a)	3*	2 / 2
MOLERO-BALTANÁS, R., GAJU-RICART, M. & BACH DE ROCA, C. (1995b)	13	13 / 3
MOLERO-BALTANÁS, BACH DE ROCA & GAJU-RICART (1996)	62	69 / 69
MOLERO-BALTANÁS, BACH DE ROCA & GAJU-RICART (1998a)	6	7 / 7
MOLERO-BALTANÁS, GAJU-RICART, BACH DE ROCA & MENDES (1998b)	174*	190 / 7

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## Appendix S2: Sampling myrmecophilic Zygentoma in Spain.

**Table S2.1:** Detailed data on the Zygentoma-Formicidae association in Spain (more comments below). Abbreviations of Zygentoma species (as in Table 4 of the main paper): Av: *Atelura valenciana*. Pp: *Proatelurina pseudolepisma*. Lb: *Lepisma baetica*. Lc: *L. chlorosoma*. Ls: *L. saccharina*. Nb: *Neoasterolepisma balearica*. Ncr: *N. crassipes*. Ncu: *N. curtiseta*. Nd: *N. delator*. Nf: *N. foreli*. Ng: *N. gauthieri*. Nh: *N. hesperica*. Nl: *N. lusitana*. Np: *N. pallida*. Nso: *N. soerenseni*. Nsp: *N. spectabilis*. Nw: *N. wasmanni*. Ta: *Tricholepisma aurea*. Ti: *T. indalica*.

Ant species	Av	Pp	Lb	Lc	Ls	Nb	Ncr	Ncu	Nd	Nf	Ng	Nh	Nl	Np	Nso	Nsp	Nw	Ta	Ti
<i>Aphaenogaster dulcinea</i>		4																	
<i>Aphaenogaster gibbosa</i>	2	7			1			2	1			1		1		1	1		
<i>Aphaenogaster iberica</i>		5		1	1		1	11	2			2		5		1	2		
<i>Aphaenogaster senilis</i>		1						6	1	1		8	1			1			
<i>Aphaenogaster subterranea</i>		1							1										
<i>Aphaenogaster</i> sp.			1						1			2							
<i>Bothriomyrmex</i> sp.		1		1															
<i>Camponotus aethiops</i>		5						4									2		
<i>Camponotus cruentatus</i>		14						22				1	2	1			1		
<i>Camponotus</i> cf. <i>micans</i>								1								1			
<i>Camponotus pilicornis</i>		5						3	1								1		
<i>Camponotus sicheli</i>		1																	
<i>Camponotus sylvaticus</i>	2	10					1	5						2			1		2
<i>Camponotus</i> sp.		2		1				2									1		
<i>Cataglyphis hispanica</i>		1						7									1		
<i>Cataglyphis iberica</i>								2											
<i>Cataglyphis velox</i> (or cf. <i>velox</i> )								2											
<i>Crematogaster auberti</i>			2	3									1						
<i>Crematogaster laestrygon</i>			1																
<i>Crematogaster</i> sp.				1															
<i>Formica gerardi</i>		1												1					
<i>Formica rufibarbis</i>								1											
<i>Formica subrufa</i>		8						28					2	1					
<i>Lasius alienus</i>		1																	
<i>Lasius brunneus</i>		5																	
<i>Lasius emarginatus</i>		1																	
<i>Lasius flavus</i>		1																	
<i>Lasius niger</i>	1	6			1							1					1		
<i>Lasius</i> sp.								1											
<i>Linepithema humile</i>		3																	
<i>Messor barbarus</i>	2	17				3	29	4	1	32	12		38	1	11	78	21	3	
<i>Messor bouvieri</i>		3				2	3	5		3						17	6		
<i>Messor capitatus</i>		8				1	8	13		2	1		7			16	5		
<i>Messor hispanicus</i>		5						3		1	1		3			6			
<i>Messor structor</i>		6		1		1	10	2		1			3			10	6	1	
<i>Messor</i> sp.		10			1		3	8		2			6		1	16	2		
<i>Pheidole pallidula</i>		44	2	9										1					

<i>Plagiolepis pygmaea</i>		1																
<i>Tapinoma erraticum</i>		1		<b>1</b>														
<i>Tapinoma nigerrimum</i>		4																
<i>Tapinoma</i> sp.		1																
<i>Temnothorax</i> sp.		2	2							1				1				
<i>Tetramorium caespitum</i>		5		<b>2</b>	<b>1</b>										1			
<i>Tetramorium forte</i>		12		<b>6</b>	<b>1</b>													
<i>Tetramorium</i> cf. <i>meridionale</i>		1																
<i>Tetramorium semilaeve</i>	1	4	<b>3</b>	3														<b>1</b>
<i>Tetramorium</i> sp.		4																

### A) Results of the sampling carried out in Spain for the quantitative analysis

Data registered in Table S2.1 correspond to the number of nests of each species of ants where each species of *Zygentoma* was found. Nests in which the species of *Zygentoma* were not identified at the specific level are not included in this Table (for example, those in which the silverfish was only identified as *Neoasterolepisma* sp.).

Overall, 156 different associations are registered. Those highlighted in bold characters and grey background are new associations (i.e., reported for the first time in this work). Additionally, one association has been detected but not included in this table: the finding of *Neoasterolepisma* sp. in a nest of *Goniomma blanci* (because the silverfish of the sample could not be identified at species level, the association has not been included in this table). In this sample (see reference in Table S1.38 of the Appendix S1), the specimens were in poor condition. This is the first time that *Goniomma* is reported with silverfish, so we can account it as association number 157 and it is included in Table 5 of the main document, where all colonies with silverfish were considered.

### B) Reasons to group species of ants by genus (Table 2 of the main document)

Formicidae species were grouped by genus:

- To provide the best significance to analyses;
- to obtain an ecological network with a higher level of connectance.
- Some ant species are not abundant but grouped by genus; they are frequent enough to make the assumption of their overall availability for silverfish choice along the territory (see later in this appendix).
- This grouping is possible because in biological terms, it makes sense, since the species of the same genus are evolutionarily related, show similar biological trends and seem to be preferred in the same way for silverfish species, as the correspondence analysis confirms.

### C) Complementary sampling used for testing the influence of the relative abundance of ants in the preference of silverfish

**Methods:** The sampling was made in eight localities of Spain (LOC 1 to LOC8), following the same method described in the section “Material and methods” of the main text of our paper, with some differences:

- 1) All ant colonies found were counted, those where *Zygentoma* were found (WZ) and those without any silverfish (NO-Z).
- 2) Ants were identified at the generic level in the field but silverfish were not identified. When the identification was possible in situ, ants were not collected.
- 3) The duration of each sampling was 80 minutes (more time than usual samplings in order to add the time for recording the additional data).

**Results:** Data are presented in Tables S2.2, S2.3, S2.4 and S2.5.

The proportion and contingency table Chi squared test was made from the total numbers of the eight localities because the number of nests per locality was not high enough for separate testing. Nevertheless, the sample size is insufficient to give a definitive conclusion. The data included here must be taken as trends to be confirmed with greater samples.

As Table S2.2 shows, the total WZ column shows a higher number of nests of *Messor* compared with the rest of ant genera found, even when *Messor* are not more abundant than other genera, as the total absolute frequencies of most localities or the total NO-Z column indicate.

To state whether the distribution of ant nests is homogeneous between NO-Z and WZ categories, a Chi squared test should be done to the respective contingency table, and to state if the proportion of *Messor* nests with silverfish is significantly higher than in any other ant genus, a proportion test should be made. However, in both cases, the expected frequencies are too low to consider the significance definitive.

Despite the previous consideration, several trends can be observed: some abundant ants as *Pheidole* (15.9% of the total), *Tapinoma* (13.7% of the total) and the category “Others” (17.2% of the total; see Table S2.3) host silverfish in very low rates, as can be seen in Table S2.4. Only 11.1% of *Pheidole* nests hosted silverfish, and none of *Tapinoma*. Moreover, the Total category shows also very low percentages compared with *Messor*, *Cataglyphis*, *Aphaenogaster* or *Formica*, all of them less abundant in the sampling but occupied by *Zygentoma* in greater proportions.

These remarks are supported by Table S2.4 and allow the results to be considered a probable trend: the relative abundance of ants does not have an influence in silverfish preferences for choosing a certain ant genus. We started our samplings assuming that the nests of most ant genera are available throughout most of the territory to the choice of silverfish.

The present study is focused on the detection of different degrees of specialisation and on different modes of the *Zygentoma*-ant association and not in other considerations that can be important for mutualistic networks. From this point of view, if results are biased by silverfish preferences, it is not important to make an account of all colonies in a locality, but only those where the association is detected. Compared with the more studied plant-pollinators networks, the aim of our work is not to know how many flowers (nests) of a given species/genus of plants (ants) are available for a pollinator (silverfish) species, but how many are actually visited (occupied). In our quantitative “symbiotic” network, numbers (especially those of *Messor*) do not reflect ant abundance, but silverfish preferences (conditioned by some features of ant and silverfish biology, but not by demographic factors of ants).

**Table S2.2:** Results, in absolute numbers, of the complementary sampling of 8 localities (LOC 1 to LOC 8) and total nests of each genus of ants. The number of nests with (WZ) or without *Zygentoma* (No-Z) is distinguished in separate columns. Details of localities are given in Table S2.6.

Ant genus	LOC 1		LOC 2		LOC 3		LOC 4		LOC 5		LOC 6		LOC 7		LOC 8		Subtotal		Total
	No-Z	WZ	No-Z	WZ	No-Z	WZ	No-Z	WZ	No-Z	WZ	No-Z	WZ	No-Z	WZ	No-Z	WZ	No-Z	WZ	
<i>Aphaenogaster</i>	1	0	4	0	4	0	4	1	1	2	3	0	2	2	0	1	19	6	25
<i>Camponotus</i>	0	1	3	0	2	0	1	0	3	0	5	1	4	1	1	0	19	3	22
<i>Cataglyphis</i>	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3	1	4
<i>Crematogaster</i>	1	0	0	0	0	0	1	1	5	0	1	0	4	0	1	0	13	1	14
<i>Formica</i>	0	0	0	0	3	1	0	0	1	1	1	0	0	0	8	2	13	4	17
<i>Lasius</i>	1	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	5	0	5
<i>Messor</i>	1	0	2	1	1	3	2	4	0	0	1	1	2	1	0	2	9	12	21
<i>Pheidole</i>	9	2	6	1	3	0	2	1	1	0	2	0	6	0	3	0	32	4	36
<i>Tapinoma</i>	6	0	10	0	6	0	5	0	0	0	2	0	2	0	0	0	31	0	31
<i>Tetramorium</i>	2	0	0	0	5	0	4	1	1	0	0	0	0	0	0	0	12	1	13
Others	14	1	1	0	6	0	0	1	6	0	2	0	5	1	2	0	36	3	39
<b>Total</b>	35	5	26	2	35	4	19	9	20	3	17	2	25	5	15	5	192	35	227

**Table S2.3:** Proportions of ant nests of each genus relative to the total sample size.

Ant genus	No-Z	WZ	Total
<i>Aphaenogaster</i>	0.084	0.026	0.110
<i>Camponotus</i>	0.084	0.013	0.097
<i>Cataglyphis</i>	0.013	0.004	0.018
<i>Crematogaster</i>	0.057	0.004	0.062
<i>Formica</i>	0.057	0.018	0.075
<i>Lasius</i>	0.022	0.000	0.022
<i>Messor</i>	0.040	0.053	0.093
<i>Pheidole</i>	0.141	0.018	0.159
<i>Tapinoma</i>	0.137	0.000	0.137
<i>Tetramorium</i>	0.053	0.004	0.057
Others	0.159	0.013	0.172
<b>Total</b>	<b>0.846</b>	<b>0.154</b>	<b>1.000</b>

**Table S2.4:** Proportions of ant nests with and without *Zygentoma* by genus of ants. All the genera show higher proportions in No-Z column except *Messor*.

	No-Z	WZ
<i>Aphaenogaster</i>	0.760	0.240
<i>Camponotus</i>	0.864	0.136
<i>Cataglyphis</i>	0.750	0.250
<i>Crematogaster</i>	0.929	0.071
<i>Formica</i>	0.765	0.235
<i>Lasius</i>	1.000	0.000
<i>Messor</i>	0.429	0.571
<i>Pheidole</i>	0.889	0.111
<i>Tapinoma</i>	1.000	0.000
<i>Tetramorium</i>	0.923	0.077
Others	0.923	0.077
<b>Total</b>	<b>0.846</b>	<b>0.154</b>

**Table S2.5:** Proportions of ant nests relative to No-Z and WZ totals, compared with P (the proportion of each ant genus). In the No-Z category, Others, *Pheidole*, *Tapinoma* have the greater abundance, with no great differences among them. In WZ category, there is a clear difference favourable to *Messor*.

	No-Z	WZ	P
<i>Aphaenogaster</i>	0.099	0.171	0.110
<i>Camponotus</i>	0.099	0.086	0.097
<i>Cataglyphis</i>	0.016	0.029	0.018
<i>Crematogaster</i>	0.068	0.029	0.062
<i>Formica</i>	0.068	0.114	0.075
<i>Lasius</i>	0.026	0.000	0.022
<i>Messor</i>	0.047	0.343	0.093
<i>Pheidole</i>	0.167	0.114	0.159
<i>Tapinoma</i>	0.161	0.000	0.137
<i>Tetramorium</i>	0.063	0.029	0.057
Others	0.188	0.086	0.172
<b>Total</b>	<b>1.000</b>	<b>1.000</b>	<b>1.000</b>



**Table S3.2:** Characters and states. \* The number 1 has been used for the apomorphic condition, but in those characters where gradual differences can be distinguished, two states have been indicated with numbers 1 and 2.

Character	Plesiomorphic condition (0)	Apomorphic condition (1 and 2)*
C.1. Isolated macrosetae in urotergites	Absent (macrosetae arranged in combs)	Present
C.2. Body shape	Fusiform (thorax slightly wider than abdomen)	Slightly limuloid (thorax very wide respect to abdomen base) (1) or very limuloid (paranotal lobes very developed) (2)
C.3. Yellowish epidermic pigment	Absent	Present
C.4. Golden scales	Absent (most scales silvery grey, black or brown)	Present, but in most specimens most scales are greyish (1) or all scales are golden (only they sometimes get dark before molt) (2)
C.5. Asteriform sensilla in antennae	Absent	Present
C.6. Asteriform sensilla of antennae arranged in pairs in some joints	No	Yes
C.7. Hind tibiae of males modified in shape	No	Yes
C.8. Hind border of nota with isolated macrosetae	No	Yes
C.9. Urosternites with pseudostyli	No	Yes
C.10. Shape of dorsal scales	Rounded	Rounded and acute
C.11. Hind border of posterior urosternites with spiniform macrosetae	No	Yes
C.12. Chaetotaxy in urotergites (except infralateral group)	2 x (1+1+1)	Modified
C.13. Chaetotaxy of the labial palp in the male	Normal	Modified
C.14. Hind tibiae of males with ciliar setae	No	Yes
C.15. Infralateral group of macrosetae with a fine outer setae	Yes	No
C.16. Isolated setae in urotergite I	1+1	More than 1+1
C.17. Isolated setae in urotergite IX	Absent	Present
C.18. Number of macrosetae in infralateral groups	2+2 (or more)	1+1
C.19. Spiniform setae in hind tibiae of the male	No	Yes
C.20. Paramera	Big, very developed	Small, reduced
C.21. Rows of white scales on hind borders of nota	No	Yes
C.22. Lost of pigment on eyes	No	Yes
C.23. Reduction of size	No	Yes
C.24. Number of macrosetae of the infralateral group of urotergites	Two (or more)	One

We included all the features that we could. None of the characters that allow distinguishing between Lepismatinae species has been discarded. Usually, these are included in descriptions and identification keys of this group of insects, as can be seen in the taxonomic works included in Table S1.73 in Appendix 1. Among them, some can be considered general traits and others have a putative relevance for living with ants. All the morphologic characters that can be used to reconstruct the evolution of this group have been included. Therefore, there is no reason to infer that the cladogram of Figure 12 is biased. The outgroup (*Allacrotelsa*) is a clearly primitive genus of Lepismatidae found in Palaearctic and

Nearctic regions (and in Baltic amber), whilst the remaining genera and species are exclusive of the Old World (evolved after the break-up of Gondwana).

In relation to the evolutionary significance of the 24 characters listed in the Tables of this Appendix, we can establish the following hypotheses:

- The significance of some of these characters in order to associate with ants is not clear (i.e., characters 1, 8, 13, 16, 17, 18, 21, and 24).
- The apomorphic condition of some of them (i.e., 1, 8, 20, 22, and 23) is shared with non-myrmecophile *Zygentoma*, suggesting that they must be related with other evolutionary trends of silverfish.
- The apomorphic condition of some of them probably represents a usual adaptation of *Zygentoma* to live with ants, since they are shared with most Atelurinae (i.e., 2, 3, and 4), but not all myrmecophile Lepismatinae develop this condition.
- One of these features might be considered a pre-adaptation related to living with ants (5), since it is present in non-myrmecophile species of the genus *Neoasterolepisma*, but its role is not clear.
- The apomorphic state of some other traits is not present in all myrmecophile Lepismatinae, but only shared by several *Messor* and *Aphaenogaster* specialists (i.e., 7 and 14) or by few species of *Messor* specialists (i.e., 9, 10, and 11). It is likely that some of these latter characteristics are not important for adapting to life with ants but to live in nests where parabiosis is verified (recognition of species that inhabit the same nest), since they imply sexual dimorphism.