

## Digital supplementary material to

WONG, M.K.L. & GUÉNARD, B. 2017: Subterranean ants: summary and perspectives on field sampling methods, with notes on diversity and ecology (Hymenoptera: Formicidae). – Myrmecological News 25: 1-16.

Tab. S1: Studies sampling whole subterranean ant communities (n = 26), first listed according to sampling technique used, followed by total species count (in descending order). The studies presented here aimed to sample whole communities of subterranean ants, that is, they did not specifically target a single group of ants. The respective techniques employed for sampling include subterranean baiting techniques such as Subterranean Baited Containers (SBC) for collecting live ants and Subterranean Pitfall Traps with preservation solution (SPT); soil sampling techniques such as the retrieval of ants from collected soil samples either manually (SSm), or with a Winkler (SSw) or Berlese extraction (SSb); the Direct Sampling (DS) of ants while excavating soil in situ. Among studies using subterranean baiting, the baits chosen for attracting subterranean ants included carbohydrates (C), lipids (L) and proteins (P). Across all studies, 12 subfamilies of ants were detected from the subterranean environment. These are: Amblyoponinae (A), Agroecomyrmecinae (Ag), Dorylinae (Dy), Dolichoderinae (D), Ectatomminae (E), Formicinae (F), Heteroponerinae (H), Leptanilinae (L), Myrmicinae (M), Ponerinae (P), Pseudomyrmecinae (Pm) and Proceratiinae (Pr). A list of corresponding references is provided at the end of the digital supplementary material.

Country (Reference)	Elevation (m a.s.l.)	Habitat	Technique (Bait)	Sampling Depth (cm)	Unit size (cm <sup>3</sup> )	Replicates	Setting time (hrs)	Total species	Subfamilies (n species)
Ecuador (31, 32)	200 - 300	Tropical forest	SBC (C + P)	12.5; 25; 37.5; 50	88	50	24; 48; 72	50	M (33), F (9), P (4), Dy (3), E (1)
Borneo (4)	500 - 1500	Tropical forest	SBC (L; P; C)	15	1697	182	48	49	M (20), P (17), F (5), Dy (4), D (1), E (1), Pr (1)
Brazil (16)	100 - 150	Tropical plantation forest	SBC (C + P)	5 - 15	28	210	8	19	M (17), F (2)
USA (22)	50 - 100	Subtropical forest	SBC (P)	10	6	864	48	20	M (16), F (2), P (1), D (1)
Vietnam (10)	100 - 200	Tropical forest	SBC (P)	10	11	140	5; 18	15	M (12), F (1), P (1), D (1)
Brazil (37)	400 - 600	Tropical crop plantation	SBC (C; P)	10	35	216	168	14	M (10), P (2), F (1), D (1)
Brazil (33)	300 - 400	Subtropical forest	SBC (L + P)	20	43	80	48	13	M (10), F (1), D (1), E (1)
Brazil (28)	700 - 900	Tropical forest, grassland, and crop	SPT (L + P)	20; 50	240	737	168; 48	75	M (46), Dy (7), F (6), P (6), E (6), D (3), A (1)
Brazil (49)	400 - 600	Tropical forest and grassland	SPT (C + P)	20	1000	45	48	41	M (24), F (10), Dy (4), E (2), D (1)
Australia (27)	50 - 100	Subtropical forest	SPT (C + P)	10	3	240	144	36	M (21), F (7), E (3), H (2), D (2), Dy (1)
Australia (1)	0 - 50	Tropical forest	SPT (C + P)	5 - 15	3	720	24; 96	29	M (21), P (4), Dy (2), F (1), D (1)
Brazil (34)	600 - 800	Tropical forest	SPT (C + P)	20	603	80	48	29	M (20), F (3), Dy (3), P (1), D (1), E (1)
Australia (2)	50 - 100	Tropical forest	SPT (C + P)	20	3	510	48	25	M (18), F (3), P (2), Dy (1), D (1)
Mexico (46)	1000 - 1600	Tropical forest	SPT (P)	10	250	50	72	19	M (13), Dy (3), F (2), E (1)
New Caledonia (5)	100 - 150	Tropical forest	SPT (C + P)	15 - 0	3	360	48	16	M (15), E (1)
Australia (1)	100 - 150	Tropical forest	SPT (C + P)	20	3	120	48	15	M (13), F (2)
Brazil (50)	600 - 800	Tropical forest	SPT (C + P)	20	603	20	48	14	M (7), Dy (3), P (2), F (1), E (1)
Brazil (8)	100 - 150	Tropical plantation forest	SSm	0 - 15	3375	4131	–	113	M (56), P (20), F (10), E (10), D (8), Dy (5), Pm (2), A (1), Pr (1)

Brazil (38)	50 - 150	Tropical forest	SSm	0 - 25	15625	324	–	106	M (53), P (33), F (12), Dy (8)
Brazil (36)	600 - 800	Subtropical forest	SSw	0 - 25	5625	90	–	71	M (35), P (11), F (11), E (7), Dy (2), A (2), D (1), H (1), Pr (1)
Ecuador (18)	1000 - 1050	Tropical forest	SSm	0 - 10	2250	199	–	62	M (30), P (15), F (11), D (3), E (2), Pm (1)
Ecuador (17)	1000	Tropical forest	SSm	0 - 10	2250	99	–	46	M (19), P (12), F (6), E (3), Dy (2), D (2), A (1), Ag (1)
Thailand (39)	100 - 200	Tropical plantation forest	SSm	0 - 10	4000	360	–	40	M (23), P (8), F (5), D (4)
Ecuador (17)	1000	Tropical forest	SSm	0 - 10	2250	99	–	39	M (17), P (14), F (7), D (1)
USA (23)	0 - 50	Temperate forest	SSb	0 - 10	1767	160	–	16	M (8), F (5), P (1), A (1), Pr (1)
South Africa (20)	1300 - 1400	Subtropical grassland	SSm	0 - 15	1500	36	–	14	M (7), F (6), P (1)
West Africa (48)	0 - 200	Tropical forest and grassland	DS	0 - 30	27000	220	–	96	M (44), P (23), Dy (12), F (11), A (4), D (2)
Madagascar (15)	1600 - 1700	Tropical forest and grassland	DS	0 - 30	27000	25	–	21	M (15), P (3), F (1), D (1), Dy (1)
Japan (24)	100 - 150	Subtropical forest	DS	0 - 25	250000	30	–	20	M (7), P (4), Pr (3), F (3), Dy (1), L (1), A (1)

Tab. S2: List of subterranean genus records with data on the collection location, techniques used, depth of collection within soil, and type of bait used. Subterranean sampling techniques listed here include Subterranean Baited Containers (SBC) and Subterranean Pitfall Traps (SPT); Soil Sampling coupled with manual retrieval of specimens (SSm), or a Winkler (SSw) or Berlese extraction (SSb), or Lavage de Terre (SSldt); Direct Sampling (DS) of ants while excavating soil in situ, and an additional technique – collecting subterranean ants from the gut contents of myrmecophagous lizards (LGC). Where used, baits include carbohydrates (C), lipids (L), proteins (P) and live insects (I). A list of corresponding references is provided at the end of the Appendix. NB: Names of genera presented are unaltered from the original studies, which consequently may not reflect a full taxonomic update.

Subfamily (n = 13) Genus (n = 125)	Countries / regions	Technique(s)	Depth (cm)	Bait type(s)	References (n = 50)
<b>Agroecomyrmecinae</b>					
<i>Tatuidris</i>	Ecuador	SSm	0 - 10	–	17
<b>Amblyoponinae</b>					
<i>Amblyopone</i>	Brazil, Ivory Coast Japan, Morocco, USA	DS, SSb, SSldt, SSm, SSw	0 - 35	–	8, 13, 23, 24, 36, 38, 48
<i>Apomyrma</i>	Ivory Coast	DS	0 - 30	–	48
<i>Myopopone</i>	Borneo	SBC	15	L	4
<i>Prionopelta</i>	Brazil, Ecuador	SPT, SSm	0 - 25	L + P	17, 28, 38
<i>Stigmatomma</i>	Ecuador, Ivory Coast	DS, SSm	0 - 30	–	17, 48
<b>Dolichoderinae</b>					
<i>Anillidris</i>	Brazil	SPT	20	C + P	35
<i>Arnoldius</i>	Australia	SPT	5 - 15	C + P	1
<i>Azteca</i>	Brazil	SSm	0 - 25	–	8, 38
<i>Dolichoderus</i>	Brazil, Ecuador	SSm	0 - 25	–	8, 18, 38
<i>Dorymyrmex</i>	Brazil	SBC, SPT, SSm	0 - 25	C, P, L + P	28, 37, 38
<i>Forelius</i>	USA	SBC	10	P	22
<i>Gracilidris</i>	Brazil	SPT	20	C + P	49
<i>Iridomyrmex</i>	Australia	SPT	10	C + P	27
<i>Linepithema</i>	Brazil, Ecuador	SBC, SPT, SSm, SSw	0 - 25	C + P, L + P	8, 17, 18, 33, 34, 36, 38
<i>Loweriella</i>	Borneo	SBC	15	L	4
<i>Tapinoma</i>	Australia, Ivory Coast, Thailand	DS, SPT, SSm	0 - 30	C + P	27, 39, 48
<i>Technomyrmex</i>	Ivory Coast, Madagascar, Thailand	DS, SSm	0 - 30	–	15, 39, 48

<b>Dorylinae</b>					
<i>Acanthostichus</i>	Brazil, Ecuador	SBC, SPT	0 - 50	C + P, L + P, P	25, 28, 31, 32, 35, 38, 49, 50
<i>Aenictus</i>	Australia, Ivory Coast, Singapore	DS, SPT	10 - 30	C + P, P	27, 42, 48
<i>Asphinctanilloides</i>	Brazil	SSm	0 - 25	–	38
<i>Cerapachys</i>	Australia, Borneo, Brazil, Ecuador, Ivory Coast, Japan	DS, SBC, SPT, SSm, SSw	0 - 30	C + P, L	1, 2, 4, 17, 24, 36, 38, 48
<i>Dorylus</i>	Borneo, Ivory Coast, Vietnam	DS, SBC	0 - 30	L, L + P	3, 4, 10, 40, 48
<i>Eciton</i>	Brazil, Costa Rica	LGC, SBC, SSm	0 - 25	L	8, 14, 19, 26, 38
<i>Labidus</i>	Brazil, Costa Rica, Ecuador, Mexico	LGC, SBC, SPT, SSm, SSw	0 - 50	C + P, L, L + P, P	8, 14, 19, 26, 28, 31, 32, 33, 34, 38, 36, 46, 49, 50
<i>Neivamyrmex</i>	Brazil, Costa Rica, Ecuador, Mexico	LGC, SBC, SPT, SSm	0 - 50	C + P, L, L + P, P	14, 17, 19, 26, 28, 31, 32, 38, 46
<i>Nomamyrmex</i>	Brazil	SSm	0 - 15	–	8
<i>Sphinctomyrmex</i>	Australia, Ivory Coast, Brazil	DS, SPT, SSm	0 - 30	C + P	1, 8, 38, 48
<b>Ectatomminae</b>					
<i>Ectatomma</i>	Brazil, Ecuador	SPT, SSm	0 - 50	C + P, L + P	8, 18, 28, 34, 38, 49
<i>Gnamptogenys</i>	Borneo, Brazil, Ecuador, Mexico	SBC, SPT, SSm, SSw	0 - 50	C + P, L, L + P, P	4, 8, 17, 18, 28, 31, 32, 36, 38, 46, 50
<i>Rhytidoponera</i>	Australia, New Caledonia	SPT	10 - 20	C + P	2, 5, 27
<i>Typhlomyrmex</i>	Brazil, Ecuador	SSm, SSw	0 - 25	–	8, 17, 36, 38
<b>Formicinae</b>					
<i>Acropyga</i>	Australia, Brazil, Ecuador, Mexico, Vietnam	SBC, SPT, SSm, SSw	0 - 25	C + P, P	2, 8, 10, 17, 18, 36, 46
<i>Anoplolepis</i>	South Africa	SSm	0 - 15	–	20
<i>Brachymyrmex</i>	Brazil, Ecuador, USA	SBC, SPT, SSb, SSm, SSw	10 - 37.5	C, C + P, L, L + P, P	8, 17, 18, 22, 23, 28, 31, 32, 34, 36, 37, 38, 49, 50
<i>Camponotus</i>	Borneo, Brazil, Ecuador, Ivory Coast, USA	DS, SBC, SPT, SSm	0 - 37.5	C, C + P, L, L + P, P	4, 8, 16, 18, 23, 28, 31, 32, 34, 38, 48, 49
<i>Lasius</i>	Japan, USA	DS, SSb	0 - 25	–	23, 24
<i>Lepisiota</i>	Ivory Coast, South Africa	DS, SSm	0 - 30	–	20, 48
<i>Oecophylla</i>	Ivory Coast	DS	0 - 30	–	48
<i>Notoncus</i>	Australia	SPT	10	C + P	27
<i>Nylanderia</i>	Australia, Brazil, Ecuador, Mexico	SBC, SPT, SSm	0 - 50	C + P, P	2, 8, 17, 18, 27, 46, 49
<i>Paratrechina</i>	Australia, Borneo, Brazil, Japan, Madagascar, Thailand, USA	DS, SBC, SPT, SSb, SSm	0 - 30	C + P, L, L + P, P	1, 4, 8, 15, 16, 22, 23, 24, 27, 31, 32, 38, 39
<i>Plagiolepis</i>	Ivory Coast, South Africa	DS, SSm	0 - 30	–	20, 48
<i>Polyrhachis</i>	Ivory Coast	DS	0 - 30	–	48
<i>Pseudolasius</i>	Australia, Borneo	SBC	15, 20	C + P, L	1, 2, 4
<i>Stigmacros</i>	Australia	SPT	10	C + P	27
<b>Heteroponerinae</b>					
<i>Heteroponera</i>	Australia, Brazil, French Guyana	SPT, SSldt, SSm, SSw	0 - 25	C + P	27, 29, 36, 38
<b>Leptanillinae</b>					
<i>Leptanilla</i>	Japan, Singapore, Spain	DS, SPT, SSldt	0 - 25	P	21, 24, 41
<b>Martialinae</b>					
<i>Martialis</i>	Brazil	SS	–	–	30
<b>Myrmicinae</b>					
<i>Acanthognathus</i>	Brazil	SSm	0 - 15	–	8
<i>Acromyrmex</i>	Brazil	SPT, SSw	0 - 25	L + P	28, 36
<i>Adelomyrmex</i>	Brazil	SSm	0 - 15	–	8
<i>Anillomyrma</i>	Vietnam	SBC	10	P	10, 12
<i>Aphaenogaster</i>	Australia, USA	SPT, SSb	0 - 20	C + P	1, 23
<i>Apterostigma</i>	Brazil, Ecuador	SSm, SSw	0 - 25	–	8, 17, 18, 36, 38
<i>Atta</i>	Brazil	SPT, SSm	0 - 25	C + P, L + P	28, 34, 38, 49
<i>Basiceros</i>	Ecuador	SSm	0 - 10	–	17, 18
<i>Blepharidatta</i>	Brazil	SSm	0 - 25	–	38

<i>Calyptomymex</i>	Ivory Coast, Vietnam	DS, SBC	0 - 30	P	10, 48
<i>Cardiocondyla</i>	Madagascar	DS	0 - 30	–	15
<i>Carebara</i>	Australia, Borneo, Brazil, Ecuador, Ivory Coast, Japan, Madagascar, Mexico, New Caledonia, Thailand, Vietnam	DS, SBC, SPT, SSm, SSw	0 - 50	C + P, L, L + P, P	1, 2, 4, 5, 8, 10, 15, 17, 18, 24, 27, 28, 31, 32, 34, 36, 38, 39, 46, 48, 49, 50
<i>Cataulacus</i>	Ivory Coast	DS	0 - 30	–	48
<i>Cephalotes</i>	Brazil	SPT, SSm	0 - 25	L + P	8, 28, 38
<i>Crematogaster</i>	Australia, Brazil, Ecuador, Ivory Coast, Japan, USA, Vietnam	DS, SBC, SPT, SSm	0 - 50	C + P, L + P, P	1, 2, 8, 10, 18, 22, 24, 27, 31, 32, 37, 38, 48, 49
<i>Cyphomyrmex</i>	Brazil, Ecuador	SSm, SSw	0 - 25	–	8, 17, 36, 38
<i>Daceton</i>	Brazil	SSm	0 - 25	–	38
<i>Dolopomyrmex</i>	Ecuador, USA	DS, SBC	12.5 - 50	C + P	7, 31, 32
<i>Eurhopalothrix</i>	Ecuador	SSm	0 - 10	–	17
<i>Hylomyrma</i>	Brazil	SSm, SSw	0 - 25	–	36, 38
<i>Lachnomyrmex</i>	Brazil	SSm	0 - 25	–	38
<i>Leptothorax</i>	Brazil, USA	SSb, SSm	0 - 25	–	23, 38
<i>Lophomyrmex</i>	Borneo, Vietnam	SBC	10, 15	L, P	4, 10
<i>Lordomyrma</i>	Australia, New Caledonia	SPT	10 - 20	C + P	5, 27
<i>Machomyrma</i>	Australia	SPT	5 - 15	C + P	1
<i>Mayriella</i>	Australia	SPT	10	C + P	27
<i>Megalomyrmex</i>	Brazil, Ecuador	SBC, SSm	0 - 37.5	C + P	8, 31, 32, 38
<i>Meranoplus</i>	Australia, Vietnam	SPT, SSb	5 - 15	C + P	1, 44
<i>Messor</i>	South Africa	SSm	0 - 15	–	20
<i>Monomorium</i>	Australia, Borneo, Brazil, Ivory Coast, Madagascar, New Caledonia, South Africa, Thailand, USA, Vietnam	DS, SBC, SPT, SSm	0 - 30	C, C + P, L, P	1, 2, 4, 5, 8, 10, 15, 20, 22, 27, 39, 48
<i>Mycocepurus</i>	Brazil	SPT, SSm	0 - 25	C + P, L + P	8, 28, 38, 49
<i>Myrmecina</i>	Japan, USA	DS, SSb	0 - 25	–	23, 24
<i>Myrmicocrypta</i>	Brazil, Ecuador	SPT, SSm	0 - 25	L + P	8, 17, 18, 28, 38
<i>Ochetomyrmex</i>	Brazil, Ecuador	SBC, SSm	0 - 25	C + P	17, 18, 31, 32, 38
<i>Octostruma</i>	Brazil	SBC, SPT, SSm, SSw	0 - 25	C, C + P, L + P	8, 16, 28, 34, 36, 39
<i>Oxyepoecus</i>	Brazil	SPT, SSm, SSw	0 - 25	L + P	28, 36, 38
<i>Pheidole</i>	Australia, Borneo, Brazil, Ecuador, Ivory Coast, Japan, Madagascar, Mexico, New Caledonia, Thailand, USA, Vietnam	DS, SBC, SPT, SSm, SSw	0 - 50	C, C + P, L, L + P, P	1, 2, 4, 5, 8, 10, 15, 16, 17, 18, 22, 24, 27, 28, 31, 32, 33, 34, 36, 37, 38, 39, 46, 48, 49, 50
<i>Pogonomyrmex</i>	Brazil	SPT	20	L + P	28
<i>Rhopalothrix</i>	Brazil	SSw	0 - 25	–	36
<i>Rogeria</i>	Brazil	SBC, SPT, SSm	0 - 25	C, C + P	8, 16, 34, 38
<i>Sericomyrmex</i>	Brazil	SBC, SPT, SSm	0 - 25	P, L + P	8, 16, 28, 38
<i>Solenopsis</i>	Australia, Borneo, Brazil, Ecuador, Japan, Mexico, New Caledonia, USA, Vietnam	SBC, SPT, SSm, SSw	0 - 50	C, C + P, I, L, L + P, P	1, 2, 4, 5, 8, 10, 16, 17, 18, 22, 27, 28, 31, 32, 33, 34, 36, 43, 46, 49, 50
<i>Stegomyrmex</i>	Brazil	SSm	0 - 15	–	8
<i>Stenammas</i>	Mexico, Morocco, USA	SPT, SSb, SSldt	0 - 10	P	13, 23, 46
<i>Strumigenys</i>	Australia, Brazil, Borneo, Ecuador, Ivory Coast, Japan, Madagascar, USA, Thailand	DS, SBC, SPT, SSb, SSm, SSw	0 - 30	C + P, L	1, 4, 8, 15, 17, 18, 23, 24, 36, 38, 39, 48
<i>Talaridris</i>	Brazil	SSm	0 - 25	–	38
<i>Tetramorium</i>	Australia, Borneo, Brazil, Ivory Coast, Japan, Madagascar, South Africa, Thailand, Vietnam	DS, SBC, SPT, SSm	0 - 30	C + P, I, L, P	1, 2, 4, 10, 15, 20, 27, 28, 39, 43, 48
<i>Trachymyrmex</i>	Brazil	SPT, SSm	0 - 25	C + P, L + P	8, 28, 38, 49
<i>Tranopelta</i>	Brazil, Ecuador	SBC, SSm	0 - 50	C, C + P	8, 16, 17, 18, 31, 32, 38
<i>Vollenhovia</i>	Borneo, New Caledonia	SBC, SPT	15 - 20	C + P, L	4, 5

<i>Wasmannia</i>	Brazil, Ecuador	SBC, SPT, SSm	0 - 25	C, C + P, L + P, P	8, 16, 17, 18, 28, 31, 32, 34, 38, 49
<b>Ponerinae</b>					
<i>Anochetus</i>	Brazil, Ecuador, Ivory Coast, Thailand	DS, SSm	0 - 30	–	8, 17, 18, 38, 39, 48
<i>Belonopelta</i>	Brazil	SSm	0 - 15	–	8
<i>Bothroponera</i>	Australia, Ivory Coast	DS, SPT	5 - 30	C + P	1, 48
<i>Centromyrmex</i>	Brazil, Ecuador, Ivory Coast	DS, SBC, SSm	0 - 30	C + P	17, 31, 32, 38, 48
<i>Dolioponera</i>	Ivory Coast	DS	0 - 30	–	48
<i>Ectomyrmex</i>	Australia	SPT	5 - 20	C + P	1, 2
<i>Euponera</i>	Ivory Coast	DS	0 - 30	–	48
<i>Fisheropone</i>	Ivory Coast	DS	0 - 30	–	48
<i>Hypoponera</i>	Australia, Borneo, Brazil, Ecuador, Ivory Coast, Japan, Madagascar, USA	DS, SBC, SPT, SSm, SSw	0 - 50	C + P, L, L + P, P	1, 4, 8, 15, 17, 18, 22, 24, 28, 36, 37, 38, 48, 50
<i>Leptogenys</i>	Borneo, Ecuador, Ivory Coast, Thailand, Vietnam	DS, SBC, SSm	0 - 30	L, P	4, 8, 10, 17, 18, 38, 39, 48
<i>Mesoponera</i>	Ivory Coast	DS	0 - 30	–	48
<i>Odontomachus</i>	Australia, Brazil, Ecuador, Ivory Coast	DS, SBC, SPT, SSm	0 - 25	C + P	1, 8, 17, 18, 31, 323, 38, 48
<i>Odontoponera</i>	Borneo, Thailand	SBC, SSm	0 - 15	L	4, 39
<i>Pachycondyla</i>	Borneo, Brazil, Ecuador, Japan, Madagascar, Thailand	DS, SBC, SPT, SSm, SSw	0 - 50	C + P, L, L + P	4, 8, 15, 17, 18, 24, 28, 31, 32, 36, 38, 39
<i>Paltothyreus</i>	Ivory Coast	DS	0 - 30	–	48
<i>Platythyrea</i>	Brazil	SSm	0 - 25	–	38
<i>Plectroctena</i>	Ivory Coast, South Africa	SSm	0 - 30	–	20, 48
<i>Ponera</i>	Japan, USA	DS, SBC, SSb	0 - 25	I	23, 24, 43
<i>Psalidomyrmex</i>	Ivory Coast	DS	0 - 30	–	48
<i>Simopelta</i>	Brazil, Costa Rica	SPT, SBC	20	C + P, L	6, 26, 34, 50
<i>Thaumatomyrmex</i>	Brazil	SSm	0 - 15	–	8
<b>Proceratiinae</b>					
<i>Discothyrea</i>	Brazil, Japan	DS, SSm, SSw	0 - 25	–	24, 36, 38
<i>Probolomyrmex</i>	Borneo	SBC	15	P	4
<i>Proceratium</i>	Brazil, Japan, USA	DS, SSb, SSm	0 - 25	–	8, 23, 24
<b>Pseudomyrmecinae</b>					
<i>Pseudomyrmex</i>	Brazil, Ecuador	SSm	0 - 25	–	8, 18, 38

Tab. S3: Studies that use subterranean sampling techniques in a standardized sampling protocol (n = 36). These are referred to in Figure 2 and Table 2 of main text, and are hereby arranged according to the nature of sampling, method and specific techniques used. Studies that conducted partial sampling aimed to collect a specific group of ants (e.g., Dorylinae), while those that conducted whole sampling collected as many species as possible without targeting a specific taxon. A list of corresponding references is provided at the end of the Appendix.

Sampling nature	Method	Specific technique	References (n = 36)	
Partial	Subterranean Baiting	SBC	4, 19, 25, 26, 40, 43	
Whole	Direct Sampling	DS	15, 24, 48	
		SBC	3, 10, 16, 22, 31, 32, 33, 37, 45, 49	
	Subterranean Baiting	SPT	1, 2, 5, 27, 28, 34, 46, 50	
		Soil Sampling	SSb	23, 47
			SSm	8, 17, 18, 20, 38, 39
		SSw	36	

## References

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