

## Digital supplementary material to

CERDÁ, X., ARNAN, X. & RETANA, J. 2013: Is competition a significant hallmark of ant (Hymenoptera: Formicidae) ecology? – Myrmecological News 18: 131-147.

Tab. S1: Structural features of ant communities from different biogeographical areas. <sup>a</sup> All sites were sampled with pitfall traps or counting ants in quadrats except: # count of the number of nests, \* baits. <sup>b</sup> Dominant taxa include species of *Iridomyrmex*, *Formica* (*rufa*, *exsecta*, *microgyna* groups), *Oecophylla*, *Azteca*, *Pseudomyrmex*, army ants (*Eciton*, *Labidus*, *Dorylus* or *Aenictus*), leaf-cutting ants (*Atta*, *Acromyrmex* and other Attini), and tramp species such as *Linepithema humile* or *Solenopsis invicta*.

	SITES <sup>a</sup>	N of species	% Dominant species <sup>b</sup>	% Abundance of dominant species <sup>b</sup>	% Abundance of two most common species	Reference
<b>COLD-TEMPERATE FORESTS</b>						
1	Young taiga clearcut (Finland)	18	28	62	65	PUNTTILA & al. (1996)
2	Old taiga clearcut (Finland)	19	26	67	77	PUNTTILA & al. (1996)
3	Mature taiga forest (Finland)	8	13	94	97	SAVOLAINEN & VEPSÄLÄINEN (1989)
4	Spruce forest (Switzerland)	5	20	94	98	CHERIX & BOURNE (1980)
5	Mixed-hardwood forest (USA) #	13	0	0	68	HERBERS (1989)
6	Mixed-hardwood forest (USA) #	8	0	0	80	HERBERS (1989)
7	Tall open forest (Australia)	18	11	17	62	ANDERSEN (1986a)
8	Tall open forest (Australia)	18	11	8	68	ANDERSEN (1986a)
9	Closed forest (Australia)	10	10	2	67	ANDERSEN (1986a)
<b>TEMPERATE FORESTS AND WOODLANDS</b>						
10	Hardwood forest (USA)	16	0	0	48	LYNCH & al. (1988)
11	Open oak-juniper woodland (USA)	24	0	0	41	ANDERSEN (1997)
12	Oak-juniper woodland (USA)	30	3	6	26	ANDERSEN (1997)
13	Pine-oak woodland (USA)	22	0	0	25	ANDERSEN (1997)
14	Eucalyptus woodland (Australia)	47	18	2	48	ANDERSEN (1986b)
15	Heathland (Australia)	22	19	18	36	ANDERSEN (1986b)
16	Poplar forest [APo1] (Hungary)	10	10	0.14	89	ALVARADO & GALLÉ (2000)
17	Poplar forest [APo2] (Hungary)	12	8	0.15	87	ALVARADO & GALLÉ (2000)
18	Poplar forest [BuPo3] (Hungary)	18	17	15	78	ALVARADO & GALLÉ (2000)
19	Oak forest [AOa2] (Hungary)	10	10	2	79	ALVARADO & GALLÉ (2000)
20	Oak forest [BuOa3] (Hungary)	11	18	2	78	ALVARADO & GALLÉ (2000)
21	Juniper woodland [BuJu1] (Hungary)	12	0	0	70	ALVARADO & GALLÉ (2000)
22	Juniper woodland [BoJu2] (Hungary)	11	0	0	71	ALVARADO & GALLÉ (2000)
23	Juniper woodland [BoJu3] (Hungary)	12	0	0	46	ALVARADO & GALLÉ (2000)
24	Old pine forest (40 y) (Hungary)	15	20	78	78	ALVARADO & GALLÉ (2000)
25	Young pine forest (Hungary)	13	15	59	77	ALVARADO & GALLÉ (2000)
26	Open grassland (Poland) #	5	0	0	76	GALLÉ & al. (1998)
27	Shrubland (Poland) #	6	0	0	57	GALLÉ & al. (1998)
28	Pine forest [plot 8] (Poland) #	5	0	0	55	GALLÉ & al. (1998)

29	Pine forest [plot 9] (Poland) #	6	17	< 0.01	79	GALLÉ & al. (1998)
30	Open grassland (Hungary)	6	17	< 0.01	73	JÁRDÁN & al. (1993)
31	Closed grassland (Hungary)	10	10	3	93	JÁRDÁN & al. (1993)
32	Shrubland (Hungary)	10	10	35	90	JÁRDÁN & al. (1993)
33	Closed poplar forest (Hungary)	12	17	66	69	JÁRDÁN & al. (1993)
<b>MEDITERRANEAN AREAS</b>						
34	Open grassland (Spain)	12	0	0	66	CERDÁ & al. (1997)
35	Open grassland (Spain)	13	0	0	58	CERDÁ & al. (1998)
36	Shrubland (Spain) #	22	0	0	48	JIMÉNEZ-ROJAS & TINAUT (1992)
37	Aleppo pine forest (Spain)	15	0	0	88	CERDÁ & al. (1997)
38	Aleppo pine forest (Spain) #	13	0	0	48	JIMÉNEZ-ROJAS & TINAUT (1992)
39	Holm oak forest (Spain)	15	0	0	84	CERDÁ & al. (1997)
40	Oak forest (Portugal) *	26	0	0	66	CAMMELL & al. (1996)
41	Pine forest (Portugal) *	23	0	0	58	CAMMELL & al. (1996)
42	Eucalyptus forest (Portugal) *	34	0	0	41	CAMMELL & al. (1996)
43	"Dehesa" pastureland (Spain) #	20	0	0	54	REYES-LÓPEZ & al. (2003)
44	Dry grassland (Italy)	8	0	0	74	CASTRACANI & al. (2010)
45	Wet grassland (Italy)	13	0	0	67	CASTRACANI & al. (2010)
46	Pine forest (Italy)	13	0	0	82	CASTRACANI & al. (2010)
47	Mixed oak forest (Italy)	14	0	0	61	CASTRACANI & al. (2010)
48	Mediterranean scrubland (Italy)	9	0	0	43	CASTRACANI & al. (2010)
<b>ARID AND SEMI-ARID ZONES AND DESERTS</b>						
49	Desert scrub (USA)	17	12	37	42	ANDERSEN (1997)
50	Desert scrub (USA)	24	8	23	26	ANDERSEN (1997)
51	Desert scrub (USA)	26	12	23	32	ANDERSEN (1997)
52	Open shrubland (Australia)	32	25	60	46	ANDERSEN (1993)
53	Mixed grassland (Australia)	39	10	33	42	ANDERSEN (1993)
54	Namib desert (South Africa)	13	0	0	62	MARSH (1985)
55	Forest steppe [transect 1] (Iran)	15	0	0	37	PAKNIA & PFEIFFER (2011)
56	Forest steppe [transect 2] (Iran)	15	0	0	44	PAKNIA & PFEIFFER (2011)
57	Forest steppe [transect 5] (Iran)	7	0	0	52	PAKNIA & PFEIFFER (2011)
58	Forest steppe [transect 6] (Iran)	14	0	0	38	PAKNIA & PFEIFFER (2011)
59	Central Persian desert [transect 3] (Iran)	12	0	0	33	PAKNIA & PFEIFFER (2011)
60	Central Persian desert [transect 4] (Iran)	11	0	0	43	PAKNIA & PFEIFFER (2011)
61	South Nubo-Sindian desert [transect 7] (Iran)	15	0	0	41	PAKNIA & PFEIFFER (2011)
62	South Nubo-Sindian desert [transect 8] (Iran)	14	0	0	45	PAKNIA & PFEIFFER (2011)
63	Semi-arid grassland (South-Africa)	26	0	0	28	LINDSEY & SKINNER (2001)
<b>TROPICAL AND SUBTROPICAL WOODLANDS</b>						
64	Fynbos shrubland (South Africa)	45	7	43	53	DONNELLY & GILIOME (1985)
65	Savanna woodland (Australia)	74	8	43	49	ANDERSEN & PATEL (1994)

66	Savanna woodland (Australia)	145	12	33	24	ANDERSEN (1992)
67	Savanna woodland (Australia)	58	5	7	18	VAN INGEN & al. (2008)
68	Cerrado grassland (Brazil)	48	25	18	27	FOWLER & al. (1990)
69	Open forest (Australia)	63	8	23	21	ANDERSEN (1992)
70	Tropical dry forest (Mexico)	46	17	13	15	GOVE & al. (2005)
71	Tropical dry secondary forest (Mexico)	37	8	8	14	GOVE & al. (2005)
72	Tropical dry forest [transect 1] (Paraguay)	55	5	2	22	DELSINNE (2007)
73	Tropical dry forest [transect 1] (Paraguay)	68	7	4	14	DELSINNE (2007)
74	Tropical dry shrubland (Paraguay)	48	4	5	19	DELSINNE (2007)
<b>TROPICAL RAIN FORESTS</b>						
75	Monsoon vine forest (Australia)	47	6	5	33	ANDERSEN & REICHEL (1994)
76	Vine forest of cloudy wet uplands (Australia)	17	12	18	56	VAN INGEN & al. (2008)
77	Primary rain forest (Mexico)	40	10	19	17	MACKEY & al. (1991)
78	Primary wet forest (Costa Rica) *	68	2	2	10	ROTH & al. (1994)
79	Wet forest (Costa Rica) #	31	3	1	33	KASPARI (1996)
80	Wet forest (Panama) #	26	0	0	33	KASPARI (1996)
81	Lowland rainforest [IFR] (Guyana)	84	0	0	35	LAPOLLA & al. (2007)
82	Lowland rainforest [MHC] (Guyana)	62	0	0	52	LAPOLLA & al. (2007)
83	Cloud rainforest [MAU] (Guyana)	40	0	0	43	LAPOLLA & al. (2007)
84	Cloud rainforest [MAF] (Guyana)	42	0	0	66	LAPOLLA & al. (2007)

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