

Digital supplementary material to

GROC, S., DELABIE, J.H.C., FERNÁNDEZ, F., LEPONCE, M., ORIVEL, J., SILVESTRE, R., VASCONCELOS, H.L. & DEJEAN, A. 2014: Leaf-litter ant communities (Hymenoptera: Formicidae) in a pristine Guianese rainforest: stable functional structure versus high species turnover. – Myrmecological News 19: 43-51.

**Appendix S1:** Functional group designation of ants at the Nouragues Research Station.

Classification A	Classification B			
Predators	Arboreal predators	Raid-hunting predators	Ground-dwelling specialist predators	Ground-dwelling generalist predators
	<i>Gnamptogenys</i> <sup>a</sup>	<i>Eciton</i>	<i>Acanthognathus</i>	<i>Anochetus</i>
	<i>Odontomachus</i> <sup>b</sup>	<i>Labidus</i>	<i>Amblyopone</i>	<i>Gigantiops</i>
	<i>Pachycondyla</i> <sup>c</sup>	<i>Leptogenys</i>	<i>Basiceros</i>	<i>Gnamptogenys</i> <sup>e</sup>
	<i>Pseudomyrmex</i>	<i>Neivamyrmex</i>	<i>Cryptomyrmex</i>	<i>Hylomyrma</i>
		<i>Pachycondyla</i> <sup>d</sup>	<i>Discothyrea</i>	<i>Hypoponera</i>
			<i>Prionopelta</i>	<i>Megalomyrmex</i> <sup>f</sup>
			<i>Pyramica</i>	<i>Odontomachus</i> <sup>g</sup>
			<i>Stegomyrmex</i>	<i>Pachycondyla</i> <sup>h</sup>
			<i>Strumigenys</i>	
			<i>Thaumatomyrmex</i>	
			<i>Typhlomyrmex</i>	
Omnivores	Arboreal omnivores	Generalist omnivores	Ground-dwelling omnivores	
	<i>Allomerus</i>	<i>Brachymyrmex</i>	<i>Carebara</i>	
	<i>Azteca</i>	<i>Camponotus</i> <sup>l</sup>	<i>Carebarella</i>	
	<i>Camponotus</i> <sup>i</sup>	<i>Crematogaster</i> <sup>m</sup>	<i>Gnamptogenys</i> <sup>o</sup>	
	<i>Cephalotes</i>	<i>Dolichoderus</i> <sup>n</sup>	<i>Lachnomyrmex</i>	
	<i>Crematogaster</i> <sup>j</sup>	<i>Ectatomma</i>	<i>Megalomyrmex</i> <sup>p</sup>	
	<i>Dolichoderus</i> <sup>k</sup>	<i>Nylanderia</i>	<i>Ochetomyrmex</i>	
	<i>Nesomyrmex</i>	<i>Pheidole</i>	<i>Rogeria</i>	
	<i>Procryptocerus</i>	<i>Solenopsis</i> <sup>r</sup>	<i>Solenopsis</i> <sup>u</sup>	
	<i>Tapinoma</i> <sup>q</sup>	<i>Tapinoma</i> <sup>s</sup>	<i>Wasmannia</i> <sup>v</sup>	
		<i>Technomyrmex</i>		
		<i>Tetramorium</i>		
		<i>Wasmannia</i> <sup>t</sup>		
Fungus-growers	Cryptobiotic attines	Leaf-cutters		
	<i>Apterostigma</i>	<i>Acromyrmex</i>		
	<i>Cyphomyrmex</i>	<i>Atta</i>		
	<i>Mycocepurus</i>	<i>Trachymyrmex</i>		
	<i>Myrmicocrypta</i>			
	<i>Sericomyrmex</i>			

- <sup>a</sup> *Gnamptogenys annulata* (MAYR, 1887), *G. porcata* (EMERY, 1896);
- <sup>b</sup> *Odontomachus (hastatus)* FABRICIUS, 1804);
- <sup>c</sup> *Pachycondyla crenata* (ROGER, 1861), *P. unidentata* MAYR, 1862;
- <sup>d</sup> *Pachycondyla commutata* (ROGER, 1860), *P. crassinoda* (LATREILLE, 1802), *P. laevigata* (SMITH, 1858);
- <sup>e</sup> *Gnamptogenys acuminata* (EMERY, 1896), *G. continua* (MAYR, 1887), *G. enodis* LATTKE, FERNANDEZ & PALACIO, 2004, *G. horni* (SANTSCHI, 1929), *G. mecoryle* BROWN, 1958, *G. minuta* (EMERY, 1896), *G. mordax* (SMITH, 1858), *G. relictata* (MANN, 1916), *G. striatula* MAYR, 1884, *G. tortuolosa* (SMITH, 1858);
- <sup>f</sup> *Megalomyrmex silvestrii* WHEELER, 1909;
- <sup>g</sup> *Odontomachus biumbonatus* BROWN, 1976, *O. caelatus* BROWN, 1976, *O. chelifera* (LATREILLE, 1802), *O. haematodus* (LINNAEUS, 1758), *O. meinerti* FOREL, 1905, *O. scalptus* BROWN, 1978;
- <sup>h</sup> *Pachycondyla arhuaca* (FOREL, 1901), *P. constricta* (MAYR, 1884), *P. cooki* MCKAY & MCKAY, 2010, *P. harpax* (FABRICIUS, 1804), *P. holmgreni* (WHEELER, 1925), *P. pergandei* (FOREL, 1909), *P. prociua* EMERY, 1890, *P. stigma* (FABRICIUS, 1804), *P. striata* SMITH, 1858, *P. verenae* FOREL, 1922, *P. cf. apicalis* morphospecies II (sensu DELABIE & al. 2008<sup>\*</sup>), *P. cf. apicalis* morphospecies IV (sensu DELABIE & al. 2008);
- <sup>i</sup> *Camponotus atriceps* (SMITH, 1858), *C. cacicus* EMERY, 1903, *C. femoratus* (FABRICIUS, 1804), *C. novogranadensis* MAYR, 1870, *C. sp. cf. atriceps*;
- <sup>j</sup> *Crematogaster brasiliensis* MAYR, 1878, *C. limata* SMITH, 1858, *C. longispina* EMERY, 1890, *C. tenuicula* FOREL, 1904;
- <sup>k</sup> *Dolichoderus attelaboides* (FABRICIUS, 1775), *D. bidens* (LINNAEUS, 1758), *D. bispinosus* (OLIVIER, 1792), *D. lutosus* (SMITH, 1858), *D. sp. cf. luederwaldti*;
- <sup>l</sup> *Camponotus fastigatus* ROGER, 1863, *C. lespeii* FOREL, 1886, *C. melanoticus* EMERY, 1864, *C. punctulatus andigenus* EMERY, 1903, *C. rapax* (FABRICIUS, 1804), *C. renggeri* EMERY, 1894, *C. (Myrmaphaenus) sp. 4*, *C. sp. 7 (paradoxus complex)*, *C. sp. 23 (ager complex)*;
- <sup>m</sup> *Crematogaster distans* MAYR, 1870, *C. flavosensitiva* LONGINO, 2003, *C. nigropilosa* MAYR, 1870, *C. sotobosque* LONGINO, 2003, *C. wardi* LONGINO, 2003;
- <sup>n</sup> *Dolichoderus imitator* EMERY, 1894;
- <sup>o</sup> *Gnamptogenys haenschei* (EMERY, 1902), *G. mina* (BROWN, 1956), *G. pleurodon* (EMERY, 1896), *G. sulcata* (SMITH, 1858);
- <sup>p</sup> *Megalomyrmex incisus* SMITH, 1947, *M. sp. 8 (pusillus group)*;
- <sup>q</sup> *Tapinoma melanocephalum* (FABRICIUS, 1793);
- <sup>r</sup> *Solenopsis virulens* (SMITH, 1858);
- <sup>s</sup> *Tapinoma sp. 2*;
- <sup>t</sup> *Wasmannia auropunctata* (ROGER, 1863);
- <sup>u</sup> *Solenopsis pollux* FOREL, 1893, *S. sp. (pygmaea group)*, *S. sp. 5*, *6*, *7*, *8*, *10*, *11*, *12*, *13*, *15*, *16*, and *18*;
- <sup>v</sup> *Wasmannia scrobifera* KEMPF, 1961.
- <sup>\*</sup> DELABIE, J.H.C., MARIANO, C.S.F, MENDES, L.F., POMPOLO, S.G. & FRESNEAU, D. 2008: Problemas apontados por estudos morfológicos, ecológicos e citogenéticos no Género *Pachycondyla* na região neotropical: o caso do complexo *apicalis*. In: VILELA, E.F., SANTOS, I.A., SCHOEREDER, J.H., CAMPOS, L.A.O. & SERRÃO, J.E. (Eds.): Insetos Sociais: da biologia à aplicação. – Editora da Universidade Federal de Viçosa, Viçosa, Minas Gerais, pp. 196-222.

**Appendix S2:** Species collected from each habitat at the Nouragues Research Station according to their taxonomic classification.

	Liana forest	Plateau forest	Transition forest	Inselberg forest
<b>Amblyoponinae FOREL, 1893</b>				
<b>Amblyoponini FOREL, 1893</b>				
<i>Amblyopone lurilabes</i> LATTKE, 1991	1	0	3	0
<i>Prionopelta</i> sp. 1	1	0	0	0
<i>Prionopelta</i> sp. 2	0	0	0	1
<i>Prionopelta</i> sp. 3	0	0	0	1
<b>Dolichoderinae FOREL, 1878</b>				
<b>Dolichoderini FOREL, 1878</b>				
<i>Dolichoderus attelaboides</i> (FABRICIUS, 1775)	0	0	3	0
<i>Dolichoderus bidens</i> (LINNAEUS, 1758)	0	0	1	0
<i>Dolichoderus bispinosus</i> (OLIVIER, 1792)	1	2	5	0
<i>Dolichoderus imitator</i> EMERY, 1894	2	1	1	2
<i>Dolichoderus lutosus</i> (SMITH, 1858)	0	1	1	0
<i>Dolichoderus sp. cf. luederwaldti</i> SANTSCHI, 1921	0	1	0	0

<b>Leptomyrmechini EMERY, 1913</b>				
<i>Azteca instabilis</i> (SMITH, 1862)	0	0	4	1
<i>Azteca</i> sp. 1	0	4	0	0
<i>Azteca</i> sp. 2	0	0	2	0
<i>Azteca</i> sp. 3	1	0	2	0
<b>Tapinomini EMERY, 1913</b>				
<i>Tapinoma melanocephalum</i> (FABRICIUS, 1793)	1	0	0	0
<i>Tapinoma</i> sp. 2	0	0	1	0
<i>Technomyrmex vitiensis</i> MANN, 1921	1	0	1	0
<b>Ecitoninae FOREL, 1893</b>				
<b>Ecitonini FOREL, 1893</b>				
<i>Eciton drepanophorum</i> SMITH, 1858	0	2	0	0
<i>Labidus coecus</i> (LATREILLE, 1802)	6	5	2	5
<i>Neivamyrmex iridescens</i> BORGMEIER, 1950	0	0	0	1
<b>Ectatomminae EMERY, 1895</b>				
<b>Ectatommini EMERY, 1895</b>				
<i>Ectatomma edentatum</i> ROGER, 1863	14	14	11	1
<i>Ectatomma lugens</i> EMERY, 1894	24	30	12	19
<i>Ectatomma tuberculatum</i> (OLIVIER, 1792)	0	1	3	0
<i>Gnamptogenys acuminata</i> (EMERY, 1896)	3	0	3	0
<i>Gnamptogenys annulata</i> (MAYR, 1887)	1	0	0	0
<i>Gnamptogenys continua</i> (MAYR, 1887)	3	2	1	0
<i>Gnamptogenys enodis</i> LATITKE, FERNANDEZ & PALACIO, 2004	4	0	0	0
<i>Gnamptogenys haenschei</i> (EMERY, 1902)	2	2	0	0
<i>Gnamptogenys horni</i> (SANTSCHI, 1929)	12	6	4	2
<i>Gnamptogenys mecotyle</i> BROWN, 1958	1	0	0	0
<i>Gnamptogenys mina</i> (BROWN, 1956)	1	0	0	0
<i>Gnamptogenys minuta</i> (EMERY, 1896)	3	0	0	1
<i>Gnamptogenys mordax</i> SMITH, 1858	1	1	0	0
<i>Gnamptogenys pleurodon</i> (EMERY, 1896)	2	0	0	0
<i>Gnamptogenys porcata</i> (EMERY, 1896)	1	1	2	1
<i>Gnamptogenys relictata</i> (MANN, 1916)	1	4	5	1
<i>Gnamptogenys striatula</i> MAYR, 1884	1	1	0	0
<i>Gnamptogenys sulcata</i> (SMITH, 1858)	0	0	2	0
<i>Gnamptogenys tortuolosa</i> (SMITH, 1858)	1	4	0	3
<b>Typhlomyrmecini EMERY, 1911</b>				
<i>Typhlomyrmex</i> sp. n. 4 (sensu LACAU 2005**)	3	3	3	0
<b>Formicinae LATREILLE, 1809</b>				
<b>Camponotini FOREL, 1878</b>				
<i>Camponotus atriceps</i> (SMITH, 1858)	0	1	0	0
<i>Camponotus cacticus</i> EMERY, 1903	1	0	0	0
<i>Camponotus fastigatus</i> ROGER, 1863	0	0	4	0
<i>Camponotus femoratus</i> (FABRICIUS, 1804)	22	29	2	0
<i>Camponotus lespesii</i> FOREL, 1886	0	1	0	0
<i>Camponotus melanoticus</i> EMERY, 1894	0	1	1	0
<i>Camponotus novogranadensis</i> MAYR, 1870	0	1	0	0
<i>Camponotus punctulatus andigenus</i> EMERY, 1903	0	0	1	0
<i>Camponotus rapax</i> (FABRICIUS, 1804)	10	1	5	5
<i>Camponotus renggeri</i> EMERY, 1894	1	3	3	0
<i>Camponotus</i> sp. cf. <i>atriceps</i> SMITH, 1858	0	0	1	1
<i>Camponotus</i> ( <i>Myrmaphaenus</i> ) sp. 4	0	0	1	0
<i>Camponotus</i> sp. 7 ( <i>paradoxus</i> complex)	0	0	1	0
<i>Camponotus</i> sp. 23 ( <i>ager</i> complex)	1	0	0	0

<b>Gigantiopini ASHMEAD, 1905</b>				
<i>Gigantiops destructor</i> (FABRICIUS, 1804)	2	0	9	0
<b>Lasini ASHMEAD, 1905</b>				
<i>Acropyga decedens</i> (MAYR, 1887)	0	3	0	0
<i>Acropyga fuhrmanni</i> (FOREL, 1914)	0	0	0	1
<i>Acropyga romeo</i> LAPOLLA, 2004	0	0	1	0
<i>Acropyga smithii</i> FOREL, 1893	0	0	0	2
<b>Plagiolepidini FOREL, 1886</b>				
<i>Brachymyrmex heeri</i> FOREL, 1874	0	0	7	6
<i>Brachymyrmex</i> sp. 2 cf. <i>heeri</i> FOREL, 1874	2	2	8	7
<i>Nylanderia fulva</i> (MAYR, 1862)	10	12	8	14
<i>Nylanderia guatemalensis</i> (FOREL, 1885)	2	1	0	0
<i>Nylanderia</i> sp. 2 cf. <i>guatemalensis</i> (FOREL, 1885)	2	1	0	0
<i>Nylanderia</i> sp. 3	0	0	2	0
<i>Nylanderia</i> sp. 4	3	0	0	0
<i>Nylanderia</i> sp. 5	10	13	23	10
<b>Myrmicinae LEPELETIER, 1835</b>				
<b>Adelomyrmecini FERNÁNDEZ, 2004</b>				
<i>Cryptomyrmex longinodus</i> (FERNÁNDEZ & BRANDÃO, 2003)	4	1	0	0
<b>Attini SMITH, 1858</b>				
<i>Acromyrmex octospinosus</i> (REICH, 1793)	1	0	0	0
<i>Acromyrmex subterraneus</i> (FOREL, 1893)	3	0	0	0
<i>Apterostigma urichii</i> FOREL, 1893	0	0	0	1
<i>Apterostigma</i> sp. 2 ( <i>pilosum</i> complex)	4	4	0	0
<i>Apterostigma</i> sp. 3 ( <i>pilosum</i> complex)	1	0	0	0
<i>Apterostigma</i> sp. 6	1	0	0	0
<i>Atta cephalotes</i> (LINNAEUS, 1758)	0	1	0	0
<i>Cyphomyrmex bigibbosus</i> EMERY, 1894	0	1	0	0
<i>Cyphomyrmex faunulus</i> WHEELER, 1925	4	0	1	0
<i>Cyphomyrmex flavidus</i> PERGANDE, 1896	10	0	3	1
<i>Cyphomyrmex laevigatus</i> WEBER, 1938	8	5	2	0
<i>Cyphomyrmex peltatus</i> KEMPF, 1966	18	10	1	7
<i>Cyphomyrmex salvini</i> FOREL, 1899	4	0	0	2
<i>Cyphomyrmex transversus</i> EMERY, 1894	6	1	2	0
<i>Mycocepurus smithii</i> (FOREL, 1893)	3	0	0	0
<i>Mycocepurus tardus</i> WEBER, 1940	0	2	0	0
<i>Myrmicocrypta</i> sp. 6	1	0	0	0
<i>Myrmicocrypta</i> sp. 7	2	1	0	0
<i>Myrmicocrypta</i> sp. 8	2	0	0	0
<i>Sericomyrmex</i> sp. 1	0	1	1	0
<i>Sericomyrmex</i> sp. 2	2	0	0	9
<i>Sericomyrmex</i> sp. 3	0	2	0	0
<i>Trachymyrmex compactus</i> MAYHE-NUNES & BRANDÃO, 2002	0	1	2	0
<i>Trachymyrmex cornetzi</i> (FOREL, 1912)	3	0	4	1
<i>Trachymyrmex farinosus</i> (EMERY, 1894)	3	2	0	0
<i>Trachymyrmex ixodus</i> MAYHE-NUNES & BRANDÃO, 2007	0	1	0	0
<i>Trachymyrmex mandibularis</i> WEBER, 1938	2	4	2	1
<i>Trachymyrmex opulentus</i> (MANN, 1922)	0	1	0	0
<i>Trachymyrmex</i> sp. 7	0	1	0	0
<i>Trachymyrmex</i> sp. 8	0	1	0	0
<i>Trachymyrmex</i> sp. 9	1	0	1	0
<b>Basicerotini BROWN, 1949</b>				
<i>Basiceros balzani</i> (EMERY, 1894)	55	7	6	8

<i>Basiceros betschi</i> (PERRAULT, 1988)	31	13	14	2
<i>Basiceros emeryi</i> (FOREL, 1912)	1	0	0	0
<i>Basiceros iheringi</i> (EMERY, 1888)	0	0	0	1
<i>Basiceros (Octostruma)</i> sp. cf. <i>iheringi</i> (EMERY, 1888)	1	1	0	0
<i>Basiceros (Octostruma)</i> sp. 1	1	3	0	0
<i>Basiceros (Rhopalothrix)</i> sp. 2	1	0	0	0
<b>Blepharidattini WHEELER &amp; WHEELER, 1991</b>				
<i>Wasmannia auropunctata</i> (ROGER, 1863)	10	15	25	4
<i>Wasmannia scrobifera</i> KEMPF, 1961	0	6	0	5
<b>Cephalotini SMITH, 1949</b>				
<i>Cephalotes atratus</i> (LINNAEUS, 1758)	0	0	2	0
<i>Cephalotes maculatus</i> (SMITH, 1876)	1	0	0	0
<i>Cephalotes</i> sp. 10 ( <i>angustus</i> clade)	0	0	1	0
<i>Procryptocerus hylaeus</i> KEMPF, 1951	1	0	0	0
<i>Procryptocerus</i> sp. 1	1	0	0	0
<b>Crematogastrini FOREL, 1893</b>				
<i>Crematogaster brasiliensis</i> MAYR, 1878	2	0	0	0
<i>Crematogaster carinata</i> MAYR, 1862	62	51	24	5
<i>Crematogaster distans</i> MAYR, 1870	1	0	0	0
<i>Crematogaster flavosensitiva</i> LONGINO, 2003	2	6	6	4
<i>Crematogaster limata</i> SMITH, 1858	56	26	41	4
<i>Crematogaster longispina</i> EMERY, 1890	6	0	17	1
<i>Crematogaster nigropilosa</i> MAYR, 1870	3	0	4	0
<i>Crematogaster sotobosque</i> LONGINO, 2003	8	10	2	0
<i>Crematogaster tenuicula</i> FOREL, 1904	3	1	1	0
<i>Crematogaster wardi</i> LONGINO, 2003	13	3	22	1
<b>Dacetini FOREL, 1892</b>				
<i>Acanthognathus brevicornis</i> SMITH, 1944	1	0	0	0
<i>Acanthognathus ocellatus</i> MAYR, 1887	0	0	1	0
<i>Pyramica alberti</i> (FOREL, 1893)	3	0	0	0
<i>Pyramica appretiata</i> (BORGMEIER, 1954)	0	1	0	0
<i>Pyramica auctidens</i> BOLTON, 2000	41	20	0	1
<i>Pyramica beebei</i> (WHEELER, 1915)	3	2	1	0
<i>Pyramica crassicornis</i> (MAYR, 1887)	4	0	0	0
<i>Pyramica deinomastax</i> BOLTON, 2000	2	0	1	0
<i>Pyramica denticulata</i> (MAYR, 1887)	86	69	67	37
<i>Pyramica hadrodens</i> BOLTON, 2000	1	1	0	0
<i>Pyramica subedentata</i> (MAYR, 1887)	6	7	2	1
<i>Strumigenys cosmostela</i> KEMPF, 1975	2	0	0	0
<i>Strumigenys diabolus</i> BOLTON, 2000	0	5	0	0
<i>Strumigenys dyseides</i> BOLTON, 2000	16	0	0	4
<i>Strumigenys elongata</i> ROGER, 1863	31	19	8	5
<i>Strumigenys hyphata</i> (BROWN, 1953)	0	0	2	0
<i>Strumigenys lanuginosa</i> WHEELER, 1905	0	1	0	0
<i>Strumigenys metopia</i> (BROWN, 1959)	0	0	0	5
<i>Strumigenys perparva</i> BROWN, 1958	3	9	3	6
<i>Strumigenys saliens</i> MAYR, 1887	1	0	0	0
<i>Strumigenys trudifera</i> KEMPF & BROWN, 1969	13	0	0	0
<i>Strumigenys</i> sp. 1 cf. <i>longinoi</i> BOLTON, 2000	0	1	0	0
<i>Strumigenys</i> sp. 2 ( <i>thaxteri</i> group)	0	1	0	0
<i>Strumigenys</i> sp. 3 ( <i>substricta</i> group)	0	0	1	0
<b>Formicoxenini FOREL, 1893</b>				
<i>Nesomyrmex tristani</i> (EMERY, 1896)	0	0	0	2

<i>Ochetomyrmex neopolitus</i> FERNÁNDEZ, 2003	3	5	5	2
<i>Ochetomyrmex semipolitus</i> MAYR, 1878	7	32	19	1
<b>Myrmicini LEPELETIER, 1835</b>				
<i>Hylomyrma balzani</i> (EMERY, 1894)	23	13	6	0
<i>Hylomyrma immanis</i> KEMPF, 1973	2	0	4	1
<i>Hylomyrma praepotens</i> KEMPF, 1973	0	0	1	0
<i>Hylomyrma reginae</i> KUTTER, 1977	1	0	3	6
<i>Hylomyrma sagax</i> KEMPF, 1973	1	2	0	0
<i>Hylomyrma</i> sp. 6	0	1	1	0
<b>Pheidolini EMERY, 1877</b>				
<i>Pheidole alienata</i> BORGMEIER, 1929	7	0	3	0
<i>Pheidole allarmata</i> WILSON, 2003	1	9	1	1
<i>Pheidole astur</i> WILSON, 2003	2	10	0	0
<i>Pheidole bruesi</i> WHEELER, 1911	0	1	2	0
<i>Pheidole carinata</i> WILSON, 2003	4	0	0	0
<i>Pheidole deima</i> WILSON, 2003	0	1	0	0
<i>Pheidole dolon</i> WILSON, 2003	2	0	1	0
<i>Pheidole gigas</i> WILSON, 2003	0	0	1	0
<i>Pheidole midas</i> WILSON, 2003	22	4	7	4
<i>Pheidole pedana</i> WILSON, 2003	32	13	0	3
<i>Pheidole radoszkowskii</i> MAYR, 1884	0	1	0	0
<i>Pheidole rubiceps</i> WILSON, 2003	0	0	1	0
<i>Pheidole scolioceps</i> WILSON, 2003	2	1	22	8
<i>Pheidole synarmata</i> WILSON, 2003	6	2	2	2
<i>Pheidole terribilis</i> WILSON, 2003	0	2	11	0
<i>Pheidole transversostriata</i> MAYR, 1887	20	8	7	0
<i>Pheidole tysoni</i> FOREL, 1901	14	15	4	9
<i>Pheidole wallacei</i> MANN, 1916	0	1	0	0
<i>Pheidole</i> sp. cf. <i>brandaoi</i> WILSON, 2003	7	9	1	1
<i>Pheidole</i> sp. 4 ( <i>fallax</i> group)	1	1	0	0
<i>Pheidole</i> sp. 6 ( <i>flavens</i> group)	1	0	0	0
<i>Pheidole</i> sp. 7 ( <i>fallax</i> group)	2	0	0	0
<i>Pheidole</i> sp. 8 ( <i>fallax</i> group)	0	2	0	0
<i>Pheidole</i> sp. 10	1	0	0	0
<i>Pheidole</i> sp. 11 ( <i>flavens</i> group)	13	14	23	0
<i>Pheidole</i> sp. 12 ( <i>diligensis</i> group)	9	2	13	0
<i>Pheidole</i> sp. 13 ( <i>tristis</i> group)	10	12	4	1
<i>Pheidole</i> sp. 15 ( <i>flavens</i> group)	7	5	17	14
<i>Pheidole</i> sp. 16 ( <i>tristis</i> group)	0	1	0	0
<i>Pheidole</i> sp. 18 ( <i>flavens</i> group)	0	1	0	0
<i>Pheidole</i> sp. 19 ( <i>flavens</i> group)	0	0	1	0
<i>Pheidole</i> sp. 25 ( <i>flavens</i> group)	10	11	4	16
<i>Pheidole</i> sp. 30 cf. <i>transversostriata</i>	1	1	0	0
<i>Pheidole</i> sp. 40 ( <i>flavens</i> complex)	15	22	12	0
<i>Pheidole</i> sp. 41 ( <i>flavens</i> complex)	1	0	0	0
<i>Pheidole</i> sp. 51	0	0	2	0
<i>Pheidole</i> sp. 55 ( <i>flavens</i> complex)	1	0	0	0
<b>Solenopsidini FOREL, 1893</b>				
<i>Allomerus decemarticulatus</i> MAYR, 1878	1	0	0	0
<i>Carebara elongata</i> FERNÁNDEZ, 2004	2	0	0	0
<i>Carebara urichi</i> (WHEELER, 1922)	10	7	2	0
<i>Carebara</i> sp. 4 ( <i>lignata</i> group)	0	2	4	4
<i>Carebarella</i> sp. 1	1	0	0	0

<i>Carebarella</i> sp. 2	2	0	0	0
<i>Megalomyrmex incisus</i> SMITH, 1947	0	0	0	1
<i>Megalomyrmex silvestrii</i> WHEELER, 1909	1	2	0	0
<i>Megalomyrmex</i> sp. 8 ( <i>pusillus</i> group)	2	1	0	0
<i>Solenopsis pollux</i> FOREL, 1893	0	0	5	0
<i>Solenopsis virulens</i> (SMITH, 1858)	11	9	0	0
<i>Solenopsis</i> sp. ( <i>pygmaea</i> group)	0	0	1	0
<i>Solenopsis (Diplorhoptrum)</i> sp. 5	2	0	0	0
<i>Solenopsis (Diplorhoptrum)</i> sp. 6	1	0	2	0
<i>Solenopsis (Diplorhoptrum)</i> sp. 7	1	0	0	0
<i>Solenopsis (Diplorhoptrum)</i> sp. 8	3	1	0	0
<i>Solenopsis (Diplorhoptrum)</i> sp. 10	0	1	1	0
<i>Solenopsis (Diplorhoptrum)</i> sp. 11	0	0	4	0
<i>Solenopsis (Diplorhoptrum)</i> sp. 12	7	11	7	0
<i>Solenopsis (Diplorhoptrum)</i> sp. 13	6	11	6	1
<i>Solenopsis (Diplorhoptrum)</i> sp. 15	31	30	34	10
<i>Solenopsis (Diplorhoptrum)</i> sp. 16	18	5	14	17
<i>Solenopsis (Diplorhoptrum)</i> sp. 18	1	0	1	0
<b>Stegomyrmecini WHEELER, 1922</b>				
<i>Stegomyrmex manni</i> SMITH, 1946	0	1	0	0
<i>Stegomyrmex olindae</i> FEITOSA, BRANDÃO & DINIZ, 2008	0	1	0	0
<b>Stenammini ASHMEAD, 1905</b>				
<i>Lachnomyrmex pilosus</i> WEBER, 1950	4	0	0	0
<i>Lachnomyrmex</i> sp.	1	1	0	0
<i>Rogeria alzatei</i> KUGLER, 1994	7	0	1	3
<i>Rogeria germaini</i> EMERY, 1894	1	0	0	0
<i>Rogeria lirata</i> KUGLER, 1994	2	1	1	1
<i>Rogeria micromma</i> KEMPF, 1961	4	2	1	6
<i>Rogeria scobinata</i> KUGLER, 1994	11	6	4	11
<i>Rogeria subarmata</i> (KEMPF, 1961)	0	0	1	0
<i>Rogeria tonduzi</i> FOREL, 1899	7	10	0	0
<i>Rogeria</i> sp. 5	1	0	0	0
<i>Rogeria</i> sp. 10 cf. <i>besucheti</i> KUGLER, 1994	0	1	0	1
<b>Tetramoriini EMERY, 1895</b>				
<i>Tetramorium bicarinatum</i> (NYLANDER, 1846)	0	1	0	0
<b>Ponerinae LEPELETIER, 1835</b>				
<b>Ponerini LEPELETIER, 1835</b>				
<i>Anochetus bispinosus</i> (SMITH, 1858)	0	1	0	0
<i>Anochetus diegensis</i> FOREL, 1912	8	2	2	1
<i>Anochetus horridus</i> KEMPF, 1964	6	7	2	7
<i>Anochetus inermis</i> ANDRÉ, 1889	2	8	0	0
<i>Anochetus mayri</i> EMERY, 1884	0	0	1	0
<i>Anochetus neglectus</i> EMERY, 1894	5	1	0	3
<i>Anochetus simoni</i> EMERY, 1890	0	1	0	0
<i>Hypoponera foreli</i> (MAYR, 1887)	2	4	3	2
<i>Hypoponera opacior</i> (FOREL, 1893)	1	2	0	0
<i>Hypoponera</i> sp. 1	7	6	0	0
<i>Hypoponera</i> sp. 2	27	14	0	0
<i>Hypoponera</i> sp. 3	0	3	1	0
<i>Hypoponera</i> sp. 4	1	0	1	0
<i>Hypoponera</i> sp. 5	0	2	0	3
<i>Hypoponera</i> sp. 6 ( <i>foreli</i> group)	0	0	4	0
<i>Hypoponera</i> sp. 10	5	4	0	0

<i>Hypoponera</i> sp. 11	7	20	10	0
<i>Hypoponera</i> sp. 12	3	1	2	7
<i>Hypoponera</i> sp. 13	5	7	11	0
<i>Leptogenys dasygyna</i> WHEELER, 1923	1	0	0	3
<i>Leptogenys langi</i> WHEELER, 1923	1	0	0	0
<i>Leptogenys vogeli</i> BORGMEIER, 1933	0	0	1	0
<i>Leptogenys</i> sp. 3	1	0	0	0
<i>Leptogenys</i> sp. 5	0	0	1	0
<i>Odontomachus biumbonatus</i> BROWN, 1976	7	6	0	0
<i>Odontomachus caelatus</i> BROWN, 1976	0	5	0	0
<i>Odontomachus chelifer</i> (LATREILLE, 1802)	0	0	0	15
<i>Odontomachus haematodus</i> (LINNAEUS, 1758)	5	1	2	1
<i>Odontomachus hastatus</i> (FABRICIUS, 1804)	0	1	0	0
<i>Odontomachus meinerti</i> FOREL, 1905	3	3	2	0
<i>Odontomachus scalptus</i> BROWN, 1978	11	7	4	0
<i>Pachycondyla arhuaca</i> (FOREL, 1901)	1	0	0	1
<i>Pachycondyla commutata</i> (ROGER, 1860)	1	2	0	0
<i>Pachycondyla constricta</i> (MAYR, 1884)	15	4	9	7
<i>Pachycondyla cooki</i> MACKAY & MACKAY, 2010	0	1	0	0
<i>Pachycondyla crassinoda</i> (LATREILLE, 1802)	7	20	1	1
<i>Pachycondyla crenata</i> (ROGER, 1861)	0	0	0	1
<i>Pachycondyla harpax</i> (FABRICIUS, 1804)	27	16	11	10
<i>Pachycondyla holmgreni</i> (WHEELER, 1925)	0	1	0	0
<i>Pachycondyla laevigata</i> (SMITH, 1858)	0	1	0	0
<i>Pachycondyla pergandei</i> (FOREL, 1909)	1	0	2	1
<i>Pachycondyla prociua</i> EMERY, 1890	0	2	0	0
<i>Pachycondyla stigma</i> (FABRICIUS, 1804)	5	4	1	0
<i>Pachycondyla striata</i> SMITH, 1858	1	1	1	0
<i>Pachycondyla unidentata</i> MAYR, 1862	0	2	0	0
<i>Pachycondyla verenae</i> FOREL, 1922	3	1	0	4
<i>Pachycondyla</i> cf. <i>apicalis</i> morphospecies II (sensu DELABIE & al. 2008*)	1	6	0	5
<i>Pachycondyla</i> cf. <i>apicalis</i> morphospecies IV (sensu DELABIE & al. 2008*)	1	1	3	0
<b>Thaumatomyrmecini EMERY, 1901</b>				
<i>Thaumatomyrmex soesilae</i> MAKHAN, 2007	2	2	0	0
<b>Proceratiinae EMERY, 1895</b>				
<b>Proceratiini EMERY, 1895</b>				
<i>Discothyrea denticulata</i> WEBER, 1939	9	2	4	0
<i>Discothyrea sexarticulata</i> BORGMEIER, 1954	8	6	1	0
<b>Pseudomyrmecinae SMITH, 1952</b>				
<b>Pseudomyrmecini SMITH, 1952</b>				
<i>Pseudomyrmex tenuis</i> (FABRICIUS, 1804)	1	0	13	6
<i>Pseudomyrmex</i> sp. ( <i>pallidus</i> group)	0	1	1	0

\* DELABIE, J.H.C., MARIANO, C.S.F, MENDES, L.F., POMPOLO, S.G. & FRESNEAU, D. 2008: Problemas apontados por estudos morfológicos, ecológicos e citogenéticos no Género *Pachycondyla* na região neotropical: o caso do complexo *apicalis*. In: VILELA, E.F., SANTOS, I.A., SCHOEREDER, J.H., CAMPOS, L.A.O. & SERRÃO, J.E. (Eds.): Insetos Sociais: da biologia à aplicação. – Editora da Universidade Federal de Viçosa, Viçosa, Minas Gerais, pp. 196-222.

\*\* LACAU, S. 2005: Morphologie et systématique du genre *Typhlomyrmex* MAYR, 1862 (Formicidae: Ectatomminae). – PhD thesis, Muséum National d'Histoire Naturelle, Paris, 243 pp.



**Appendix S3:** Values of the Mann-Whitney (*U*) test used for the pairwise comparisons of the average density of species between habitats (*U* values for which the P-value is significant –  $0.001 < P < 0.01$  – are in bold).

	<b>FL</b>	<b>GP</b>	<b>FT</b>	<b>IN</b>
<b>FL</b>	×			
<b>GP</b>	<b>8080</b>	×		
<b>FT</b>	<b>6266</b>	<b>9457</b>	×	
<b>IN</b>	<b>3499</b>	3933	<b>3146</b>	×