

## SUPPLEMENTARY MATERIAL

For taxonomic identification, the following keys and reviews were used:

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**Table S1.** Subfamilies, genera, tribes and species of Formicidae in the three provinces of northeastern Argentina. Period 2015-2018. The values represent presence-absence of the species. References: Misiones: Garupá (GA), Oberá (OB); Chaco: Estancia San Carlos (SC), Reserva Los Chaguares (RC), Puerto Antequera (PA), General Vedia (VE), Estancia San Francisco (SF); Corrientes: Cambyretá (CA), Capitá Miní (CM), Estancia El Dorado (ED), Galarza (GZ), San Miguel (SM), Mburucuyá (MB); Formosa: Pirané (PE), Formosa (FO).

**Tabla S1.** Subfamilias, géneros, tribus y especies de Formicidae en las tres provincias del noreste de Argentina. Periodo 2015-2018. Los valores representan presencia-ausencia de las especies. Referencias: Misiones: Garupá (GA), Oberá (OB); Chaco: Estancia San Carlos (SC), Reserva Los Chaguares (RC), Puerto Antequera (PA), General Vedia (VE), Estancia San Francisco (SF); Corrientes: Cambyretá (CA), Capitá Miní (CM), Estancia El Dorado (ED), Galarza (GZ), San Miguel (SM), Mburucuyá (MB); Formosa: Pirané (PE), Formosa (FO).

<i>Acanthostichus kirbyi</i> Emery, 1895	<i>Acanthostichus</i>	Acanthostichini	Dorylinae	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Acanthostichus laticornis</i> Forel, 1908	<i>Acanthostichus</i>	Acanthostichini	Dorylinae	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acanthostichus quadratus</i> Emery, 1895	<i>Acanthostichus</i>	Acanthostichini	Dorylinae	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eciton quadriglume</i> (Haliday, 1836)	<i>Eciton</i>	Ecitonini	Dorylinae	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Labidus coecus</i> (Latreille, 1802)	<i>Labidus</i>	Ecitonini	Dorylinae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Labidus praedator</i> (Smith F., 1858)	<i>Labidus</i>	Ecitonini	Dorylinae	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
<i>Neivamyrmex angustinodis</i> (Emery, 1888)	<i>Neivamyrmex</i>	Ecitonini	Dorylinae	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Neivamyrmex bohlsi</i> (Emery, 1896)	<i>Neivamyrmex</i>	Ecitonini	Dorylinae	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Neivamyrmex carettei</i> (Forel, 1913)	<i>Neivamyrmex</i>	Ecitonini	Dorylinae	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Ectatomma brunneum</i> Smith F., 1858	<i>Ectatomma</i>	Ectatommini	Ectatomminae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Ectatomma edentatum</i> Roger, 1863	<i>Ectatomma</i>	Ectatommini	Ectatomminae	1	1	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0
<i>Ectatomma opaciventre</i> Roger, 1861	<i>Ectatomma</i>	Ectatommini	Ectatomminae	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heteroponera dolo</i> (Roger, 1860)	<i>Heteroponera</i>	Heteroponerini	Ectatomminae	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heteroponera mayri</i> Kempf, 1962	<i>Heteroponera</i>	Heteroponerini	Ectatomminae	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Holcoponera striatula</i> (Mayr, 1884)	<i>Holcoponera</i>	Ectatommini	Ectatomminae	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Poneracantha triangularis</i> (Mayr, 1887)	<i>Poneracantha</i>	Ectatommini	Ectatomminae	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Camponotus blandus</i> (Smith F., 1858)	<i>Camponotus</i>	Camponotini	Formicinae	0	0	0	0	1	0	1	1	0	1	0	1	0	1	0	1	0
<i>Camponotus bonariensis</i> Mayr, 1868	<i>Camponotus</i>	Camponotini	Formicinae	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Camponotus borellii</i> Emery, 1894	<i>Camponotus</i>	Camponotini	Formicinae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Camponotus cordiceps</i> Santschi, 1939	<i>Camponotus</i>	Camponotini	Formicinae	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
<i>Camponotus mus</i> Roger, 1863	<i>Camponotus</i>	Camponotini	Formicinae	1	1	0	0	0	1	1	0	1	1	1	0	1	1	0	0	1
<i>Camponotus punctulatus</i> Mayr, 1868	<i>Camponotus</i>	Camponotini	Formicinae	1	0	1	1	1	1	1	1	0	0	1	0	1	0	1	0	1

<i>Camponotus rufipes</i> (Fabricius, 1775)	<i>Camponotus</i>	Camponotini	Formicinae	1	1	1	1	1	1	1	1	1	1	1	0	0
<i>Camponotus sanctaefidei</i> Dalla Torre, 1892	<i>Camponotus</i>	Camponotini	Formicinae	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Camponotus sericeiventris</i> Guérin-Méneville, 1838	<i>Camponotus</i>	Camponotini	Formicinae	1	0	0	0	0	0	0	0	0	1	0	1	0
<i>Camponotus substitutus</i> Emery, 1894	<i>Camponotus</i>	Camponotini	Formicinae	0	0	1	0	1	0	0	1	0	0	1	0	0
<i>Brachymyrmex aphidicola</i> Forel, 1909	<i>Brachymyrmex</i>	Plagiolepidini	Formicinae	1	1	1	0	1	0	0	1	0	1	0	0	1
<i>Nylanderia fulva</i> (Mayr, 1862)	<i>Nylanderia</i>	Plagiolepidini	Formicinae	1	1	1	1	1	0	0	1	0	0	1	1	1
<i>Nylanderia silvestrii</i> (Emery, 1906)	<i>Nylanderia</i>	Plagiolepidini	Formicinae	0	0	1	0	0	0	0	0	0	0	0	1	1
<i>Acromyrmex ambiguus</i> Emery, 1888	<i>Acromyrmex</i>	Attini	Myrmicinae	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acromyrmex coronatus</i> (Fabricius, 1804)	<i>Acromyrmex</i>	Attini	Myrmicinae	1	1	0	0	0	0	0	0	0	0	0	0	0
<i>Acromyrmex lobicornis</i> Emery, 1888	<i>Acromyrmex</i>	Attini	Myrmicinae	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Acromyrmex lundii</i> (Guérin-Meneville, 1838)	<i>Acromyrmex</i>	Attini	Myrmicinae	0	0	1	1	1	1	1	0	0	0	0	0	1
<i>Apterostigma pilosum</i> Mayr, 1865	<i>Apterostigma</i>	Attini	Myrmicinae	1	0	0	0	1	0	0	1	0	0	0	0	1
<i>Atta vollenweideri</i> Forel, 1893	<i>Atta</i>	Attini	Myrmicinae	1	0	0	0	1	0	0	0	0	0	0	0	0
<i>Cyphomyrmex rimosus</i> (Spinola, 1851)	<i>Cyphomyrmex</i>	Attini	Myrmicinae	1	1	0	1	1	0	0	1	0	0	0	1	0
<i>Cyphomyrmex transversus</i> Emery, 1894	<i>Cyphomyrmex</i>	Attini	Myrmicinae	0	1	0	0	0	0	0	0	0	0	1	0	1
<i>Trachymyrmex pruinosus</i> Emery, 1905	<i>Trachymyrmex</i>	Attini	Myrmicinae	1	0	0	0	1	1	1	0	0	0	0	0	0
<i>Octostruma balzani</i> (Emery, 1894)	<i>Octostruma</i>	Attini	Myrmicinae	1	0	0	0	0	0	0	0	1	0	0	0	0
<i>Wasmannia auropunctata</i> (Roger, 1863)	<i>Wasmannia</i>	Attini	Myrmicinae	1	1	0	1	1	0	1	0	1	0	1	1	0
<i>Cephalotes atratus</i> (Linnaeus, 1758)	<i>Cephalotes</i>	Attini	Myrmicinae	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cephalotes bruchi</i> (Forel, 1912)	<i>Cephalotes</i>	Attini	Myrmicinae	0	0	0	0	0	0	0	0	1	1	1	0	0
<i>Cephalotes clypeatus</i> (Fabricius, 1804)	<i>Cephalotes</i>	Attini	Myrmicinae	1	1	0	0	0	0	0	0	1	0	0	0	1
<i>Cephalotes depressus</i> (Klug, 1824)	<i>Cephalotes</i>	Attini	Myrmicinae	0	0	1	0	0	0	0	1	0	0	0	0	0

<i>Cephalotes incertus</i> (Emery, 1905)	<i>Cephalotes</i>	Attini	Myrmicinae	0 0   0 0 0 0 0 0   0 0 1 1 0   0 0
<i>Cephalotes maculatus</i> (Smith F., 1876)	<i>Cephalotes</i>	Attini	Myrmicinae	0 1   0 0 0 0 0 0   0 0 0 0 1   0 0
<i>Cephalotes minutus</i> (Fabricius, 1804)	<i>Cephalotes</i>	Attini	Myrmicinae	0 0   0 0 0 0 0 0   0 0 0 1 0   0 0
<i>Cephalotes pilosus</i> (Emery, 1896)	<i>Cephalotes</i>	Attini	Myrmicinae	0 0   0 0 0 0 0 0   1 0 0 1 0   0 0
<i>Cephalotes prodigiosus</i> (Santschi, 1921)	<i>Cephalotes</i>	Attini	Myrmicinae	0 0   0 0 0 0 0 0   0 0 1 0 0   0 0
<i>Procryptocerus goeldii</i> Forel, 1899	<i>Procryptocerus</i>	Attini	Myrmicinae	0 0   0 0 0 0 0 0   0 1 0 1 0   0 0
<i>Crematogaster corticola</i> Mayr, 1887	<i>Crematogaster</i>	Crematogastrini	Myrmicinae	0 0   0 0 0 0 0 0   1 0 0 0 0   0 0
<i>Crematogaster crinosa</i> Mayr, 1862	<i>Crematogaster</i>	Crematogastrini	Myrmicinae	1 1   0 1 1 1 1 1   0 0 0 0 0   0 1
<i>Crematogaster iheringi</i> Forel, 1908	<i>Crematogaster</i>	Crematogastrini	Myrmicinae	0 0   1 0 0 0 0 0   0 0 0 0 0   0 0
<i>Crematogaster quadriformis</i> Roger, 1863	<i>Crematogaster</i>	Crematogastrini	Myrmicinae	0 0   0 0 0 0 0 0   0 1 0 0 0   0 0
<i>Strumigenys denticulata</i> (Mayr, 1887)	<i>Strumigenys</i>	Attini	Myrmicinae	0 0   0 0 0 0 0 0   0 0 1 0 0   0 0
<i>Strumigenys louisianae</i> Roger, 1863	<i>Strumigenys</i>	Attini	Myrmicinae	0 0   0 0 0 0 0 0   1 0 0 0 0   1 0
<i>Nesomyrmex spininodis</i> Mayr, 1887	<i>Nesomyrmex</i>	Attini	Myrmicinae	0 0   0 0 0 0 0 0   1 1 1 0 0   0 0
<i>Pogonomyrmex naegelii</i> Emery, 1878	<i>Pogonomyrmex</i>	Attini	Myrmicinae	1 0   0 0 0 0 0 0   0 0 0 0 0   0 0
<i>Pheidole obscurithorax</i> Naves, 1985	<i>Pheidole</i>	Attini	Myrmicinae	1 1   1 1 1 1 1 1   0 1 0 0 0   0 1
<i>Pheidole radoszkowskii</i> Mayr, 1884	<i>Pheidole</i>	Attini	Myrmicinae	1 0   1 1 1 0 0 1   0 0 0 0 0   0 1
<i>Pheidole taurus</i> Emery, 1906	<i>Pheidole</i>	Attini	Myrmicinae	0 0   0 0 1 0 0 0   0 0 0 0 0   0 0
<i>Solenopsis invicta</i> Buren, 1972	<i>Solenopsis</i>	Solenopsidini	Myrmicinae	0 1   1 1 1 1 1 0   0 0 0 0 0   0 0
<i>Discothyrea neotropica</i> Bruch, 1919	<i>Discothyrea</i>	Proceratiini	Proceratiinae	0 1   0 0 0 0 0 0   0 0 0 0 0   0 0
<i>Anochetus neglectus</i> Emery, 1894	<i>Anochetus</i>	Ponerini	Ponerinae	0 0   0 0 0 0 0 0   0 0 0 1 0   0 0
<i>Dinoponera australis</i> Emery, 1901	<i>Dinoponera</i>	Ponerini	Ponerinae	1 1   0 0 0 0 0 0   0 0 0 0 0   0 0
<i>Hypoponera foreli</i> (Mayr, 1887)	<i>Hypoponera</i>	Ponerini	Ponerinae	1 0   0 0 0 0 0 0   0 0 0 0 0   0 0

				Ponerinae	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
<i>Hypoponera opacior</i> (Forel, 1893)	<i>Hypoponera</i>	Ponerini		Ponerinae	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
<i>Hypoponera schmalzi</i> (Emery, 1896)	<i>Hypoponera</i>	Ponerini		Ponerinae	0	0	0	0	0	0	0	1	0	0	1	0	0	0	
<i>Hypoponera trigona</i> (Mayr, 1887)	<i>Hypoponera</i>	Ponerini		Ponerinae	1	0	0	0	0	1	1	1	0	1	1	0	0	0	
<i>Neoponera crenata</i> (Roger, 1861)	<i>Neoponera</i>	Ponerini		Ponerinae	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Neoponera villosa</i> (Fabricius, 1804)	<i>Neoponera</i>	Ponerini		Ponerinae	0	1	1	1	1	0	0	1	0	0	1	0	0	1	
<i>Leptogenys boholsi</i> Emery, 1896	<i>Leptogenys</i>	Ponerini		Ponerinae	0	0	0	0	0	0	0	0	0	0	1	0	1	0	
<i>Odontomachus chelifer</i> (Latreille, 1802)	<i>Odontomachus</i>	Ponerini		Ponerinae	1	0	1	1	1	1	1	1	0	0	0	1	0	0	
<i>Odontomachus haematodus</i> (Linnaeus, 1758)	<i>Odontomachus</i>	Ponerini		Ponerinae	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
<i>Odontomachus meinerti</i> Forel, 1905	<i>Odontomachus</i>	Ponerini		Ponerinae	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pachycondyla harpax</i> (Fabricius, 1804)	<i>Pachycondyla</i>	Ponerini		Ponerinae	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
<i>Pachycondyla striata</i> Smith F., 1858	<i>Pachycondyla</i>	Ponerini		Ponerinae	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pseudomyrmex denticollis</i> (Emery, 1890)	<i>Pseudomyrmex</i>	Pseudomyrmecini		Pseudomyrmecinae	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
<i>Pseudomyrmex gracilis</i> (Fabricius, 1804)	<i>Pseudomyrmex</i>	Pseudomyrmecini		Pseudomyrmecinae	1	0	0	0	0	0	0	0	1	1	0	1	0	1	
<i>Pseudomyrmex pallidus</i> (Smith F., 1855)	<i>Pseudomyrmex</i>	Pseudomyrmecini		Pseudomyrmecinae	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
<i>Pseudomyrmex phyllophilus</i> (Smith F., 1858)	<i>Pseudomyrmex</i>	Pseudomyrmecini		Pseudomyrmecinae	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
<i>Pseudomyrmex urbanus</i> (Smith F., 1877)	<i>Pseudomyrmex</i>	Pseudomyrmecini		Pseudomyrmecinae	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
				Richness	39	34	15	15	21	10	12	16	13	17	23	23	14	22	20