

## Digital supplementary material to

PEETERS, C. & ITO, F. 2015: Wingless and dwarf workers underlie the ecological success of ants (Hymenoptera: Formicidae). – Myrmecological News 21: 117-130.

**Appendix S1.** List of 286 ant genera in which head width of workers was measured (maximum width of head capsule excluding eyes, in full-face view), as well as 21 eusocial bees and 25 eusocial wasps for which data were obtained in the literature. Species for which results are not indicated have worker heads wider than 1 mm, i.e., there are no "dwarf" workers. All data are summarized in Fig. 2. \* measured from photographs available on www.antweb.org

**FORMICIDAE**

(see BOLTON 2015)

**Agrocomymecinae***Ankylomyrma coronacantha*\**Tatuidris tatusia*\***Amblyoponinae***Adetomyrma caputleae*\**Amblyopone australis**Apomyrma stygia*\**Bannapone scrobiceps*\**Concoctio concenta*\**Myopopone castanea**Mystrium camillae**Onychomyrma hedleyi**Opamyrma hungvuong*\**Prionopelta kraepelini**Stigmatomma besucheti*\**Xymmer* sp. mg03\***Aneuretinae***Aneuretus simoni*\***Dolichoderinae***Anillidris bruchi*\**Anonychomyrma extensa*\**Aptinoma mangabe*\**Arnoldius pusillus*\**Axinidris acholli*\**Azteca chartifex*\**Bothriomyrma modestus*\**Chronoxenus myops*\**Dolichoderus* sp. (*thoracicus* group)*Forelius* sp.*Iridomyrma minor*\**Leptomyrma* sp.*Linepithema humile**Liometopum microcephalum*\**Loweriella boltoni*\**Nebothriomyrma majeri*\**Philidris* sp.*Tapinoma* sp.*Technomyrma* sp.*Turneria pacifica*\***Dorylinae***Acanthostichus femoralis*\**Aenictogiton* sp. ug01\**Aenictus* sp.*Asphinctanilloides amazona*\**Cerapachys* sp.*Cylindromyrma brevitarsus*\**Dorylus laevigatus**Eciton* sp.*Labidus spininodis*\**Leptanilloides biconstricta*\**Neivamyrmex* sp. cr01\**Nomamyrmex esenbeckii*\**Simopone occulta*\**Sphinctomyrma cribratus*\**Tanipone aversa*\**Vicinopone conciliatrix*\***Ectatomminae***Ectatomma* sp.*Gnamptogenys cribrata**Rhytidoponera* sp.*Typhlomyrma pusillus*\***Formicinae***Acanthomyops* sp.*Acropyga nipponensis**Agraulomyrma* sp. afrc-tz-01\**Alloformica aberrans*\**Anoplolepis gracilipes**Aphomyrma afer*\**Brachymyrma* sp.*Bajcaridris kraussii*\**Calomyrma tropicus*\**Camponotus (Colobopsis)* sp.*Cataglyphis emeryi**Echinopla* sp.*Euprenolepis wittei**Formica japonica**Gesomyrma chaperi**Iberofornica subrufa*\**Lasiophanes strenua*\**Lasius talpa**Lepisiota* sp.*Melophorus* sp. (group c)\**Myrmecocystus tenuinodis*\**Myrmecorhynchus emeryi*\**Myrmelachista skwarrae*\**Myrmoterias jaitrongi**Notoncus hickmani*\**Notostigma carazzi*\**Nylanderia sakurae*

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<i>Oecophylla smaragdina</i>		<i>Cryptomyrmex longinodus</i> *	< 1 mm
<i>Opisthopsis linnaei</i> *	< 1 mm	<i>Cyatta abscondita</i> *	< 0.5 mm
<i>Overbeckia subclavata</i> *	< 1 mm	<i>Cyphoidris spinosa</i> *	< 1 mm
<i>Paraparatrechina</i> sp.	< 0.5 mm	<i>Cyphomyrmex snellingi</i> *	< 1 mm
<i>Paratrechina longicornis</i>	< 1 mm	<i>Dacotinops</i> sp.	< 1 mm
<i>Petalomyrmex phylax</i> *	< 1 mm	<i>Diaphoromyrma sofiae</i> *	< 1 mm
<i>Phasmomyrmex aberrans</i> *		<i>Dicroaspis laevidens</i> *	< 1 mm
<i>Plagiolepis</i> sp.	< 0.5 mm	<i>Epelysidris brocha</i>	< 1 mm
<i>Polyergus samurai</i>		<i>Eurhopalothrix</i> sp.	< 1 mm
<i>Polyrhachis</i> sp.		<i>Harpagoxenus sublaevis</i> *	< 1 mm
<i>Prenolepis jacobsoni</i>	< 1 mm	<i>Huberia striata</i> *	
<i>Proformica epinotalis</i> *	< 1 mm	<i>Hylomyrma reginae</i> *	< 1 mm
<i>Prolasius abruptus</i> *	< 1 mm	<i>Indomyrma dasypyx</i> *	< 1 mm
<i>Pseudolasius</i> sp.	< 1 mm	<i>Ishakidris ascitaspis</i> *	
<i>Pseudonotoncus hirsutus</i> *	< 1 mm	<i>Kalathomyrmex emeryi</i>	< 1 mm
<i>Rossomyrmex anatolicus</i> *	< 1 mm	<i>Kartidris sparsipila</i> *	< 1 mm
<i>Santschiella kohli</i> *	< 1 mm	<i>Kempfidris inusualis</i> *	< 0.5 mm
<i>Stigmacros</i> sp. ( <i>pusilla</i> complex)*	< 0.5 mm	<i>Lachnomyrmex victori</i> *	< 1 mm
<i>Tapinolepis</i> sp. mg01*	< 0.5 mm	<i>Lasiomyrma gedensis</i> *	< 1 mm
<i>Teratomyrmex greavesi</i> *	< 0.5 mm	<i>Lenomyrmex wardi</i> *	< 1 mm
<i>Zatania gloriosa</i> *		<i>Lepto thorax acervorum</i> *	< 1 mm
		<i>Liomyrmex</i> sp.	< 1 mm
<b>Heteroponerinae</b>		<i>Lophomyrmex</i> sp.	< 1 mm
<i>Acanthoponera minor</i> *	< 1 mm	<i>Lordomyrma</i> sp.	< 1 mm
<i>Heteroponera georgesi</i> *	< 1 mm	<i>Malagidris sofina</i> *	< 1 mm
		<i>Manica parasitica</i> *	
<b>Leptanillinae</b>		<i>Mayriella</i> sp.	< 0.5 mm
<i>Anomalomyrma helenae</i> *	< 1 mm	<i>Megalomyrmex symmetochus</i> *	< 1 mm
<i>Leptanilla kebunraya</i>	< 0.5 mm	<i>Melissotarsus beccarii</i>	< 1 mm
<i>Protanilla wallacei</i>	< 1 mm	<i>Meranoplus malaysianus</i>	< 1 mm
		<i>Mesostruma exolympica</i> *	< 1 mm
<b>Martialinae</b>		<i>Messor rufotestaceus</i> *	
<i>Martialis heureka</i> *	< 1 mm	<i>Metapone truki</i> *	< 1 mm
		<i>Microdaceton tibialis</i> *	< 1 mm
<b>Myrmeciinae</b>		<i>Monomorium floricola</i>	< 0.5 mm
<i>Myrmecia loweryi</i> *		<i>Mycetagroicus urbanus</i> *	< 1 mm
<i>Nothomyrmecia macrops</i> *		<i>Mycetarotes parallelus</i> *	< 1 mm
		<i>Mycetophylax emeryi</i> *	< 1 mm
<b>Myrmicinae</b>		<i>Mycetosoritis hartmanni</i> *	< 1 mm
<i>Acanthognathus ocellatus</i> *	< 1 mm	<i>Mycocarpus obsoletus</i> *	< 1 mm
<i>Acanthomyrmex minus</i>	< 1 mm	<i>Myrmecina</i> sp.	< 1 mm
<i>Acromyrmex coronatus</i> *		<i>Myrmica taediosa</i>	< 1 mm
<i>Adelomyrmex marginodus</i> *	< 0.5 mm	<i>Myrmica sp.</i>	< 1 mm
<i>Adlerzia froggatti</i> *	< 1 mm	<i>Myrmicocrypta squamosa</i> *	< 1 mm
<i>Allomerus septemarticulatus</i> *	< 0.5 mm	<i>Myrmisaraka producta</i> *	< 1 mm
<i>Ancyridris polyrhachoides</i> *	< 1 mm	<i>Nesomyrmex</i> sp. afrc-gau-01*	< 0.5 mm
<i>Aphaenogaster</i> sp.	< 1 mm	<i>Ochetomyrmex neopolitus</i> *	< 0.5 mm
<i>Apterostigma auriculatum</i> *	< 1 mm	<i>Octostruma ascrobicula</i> *	< 0.5 mm
<i>Atopomyrmex calpocalycola</i> *		<i>Ocymyrmex gariepensis</i> *	< 1 mm
<i>Atta texana</i> *	< 1 mm	<i>Orectognathus rostratus</i> *	< 1 mm
<i>Austromorium flavigastre</i> *	< 1 mm	<i>Oxyepoecus reticulatus</i> *	< 1 mm
<i>Baracidris meketra</i> *	< 0.5 mm	<i>Oxyopomyrmex saulcyi</i> *	< 1 mm
<i>Basicros manni</i> *		<i>Paramycetophylax bruchi</i> *	
<i>Blepharidatta brasiliensis</i> *	< 0.5 mm	<i>Paratopula</i> sp.	
<i>Bondroitia lujae</i> *	< 1 mm	<i>Perissomyrmex guizhouensis</i> *	
<i>Calyptomyrmex</i> sp.		<i>Peronomyrmex greavesi</i> *	< 1 mm
<i>Cardiocondyla wroughtonii</i>	< 0.5 mm	<i>Phalacromyrmex fugax</i> *	< 1 mm
<i>Carebara sangi</i>	< 0.5 mm	<i>Phaidole tawauensis</i>	< 0.5 mm
<i>Cataulacus adpressus</i> *	< 1 mm	<i>Pilotrochus besmerus</i> *	< 1 mm
<i>Cephalotes hirsutus</i> *	< 1 mm	<i>Podomyrma minor</i> *	< 1 mm
<i>Chimaeridris boltoni</i> *	< 1 mm	<i>Poecilomyrma</i> sp. fj03*	< 1 mm
<i>Colobostruma biconvexa</i> *	< 0.5 mm	<i>Pogonomyrmex laevinodis</i> *	< 1 mm
<i>Crematogaster osakensis</i>	< 1 mm	<i>Pristomyrmex brevispinosus</i>	< 1 mm

<i>Proatta butteli</i>	< 1 mm
<i>Procryptocerus nalini</i> *	
<i>Propodilobus pingorum</i> *	< 1 mm
<i>Protalaridris</i> sp. jel-bord*	< 1 mm
<i>Recurvidris kemneri</i>	< 0.5 mm
<i>Rhopalomastix rothneyi</i> *	< 0.5 mm
<i>Rogeria bruchi</i> *	< 0.5 mm
<i>Romblonella elysii</i> *	< 1 mm
<i>Rostromyrmex</i> sp.	< 1 mm
<i>Royidris depilosa</i> *	< 0.5 mm
<i>Secostruma lethifera</i> *	< 1 mm
<i>Sericomyrmex amabilis</i> *	< 1 mm
<i>Solenopsis japonica</i>	< 0.5 mm
<i>Stegomyrmex vizottoi</i> *	
<i>Stenamma nipponense</i>	< 1 mm
<i>Stereomyrmex dispar</i> *	< 1 mm
<i>Strongylognathus koreanus</i> *	< 1 mm
<i>Strumigenys membranifera</i>	< 0.5 mm
<i>Syllophopsis australica</i> *	< 0.5 mm
<i>Talaridris mandibularis</i> *	< 1 mm
<i>Temnothorax arimensis</i>	< 0.5 mm
<i>Terataner velatus</i> *	< 1 mm
<i>Tetheamyрма subspongia</i> *	< 1 mm
<i>Tetramorium palaense</i>	< 1 mm
<i>Trachomyrmex septentrionalis</i> *	< 1 mm
<i>Tranopelta subterranea</i> *	< 1 mm
<i>Trichomyrmex destructor</i> *	< 0.5 mm
<i>Tropidomyrmex elianae</i> *	< 1 mm
<i>Tyrannomyrmex dux</i> *	< 0.5 mm
<i>Veromessor lariversi</i> *	
<i>Vitsika tenuis</i> *	< 1 mm
<i>Vollenhovia</i> sp.	< 0.5 mm
<i>Vombisidris</i> sp.	< 1 mm
<i>Wasmannia auropunctata</i> *	< 0.5 mm
<i>Xenomyrmex stollii</i> *	< 0.5 mm

#### Paraponerinae

*Paraponera clavata*

#### Ponerinae

<i>Anochetus</i> sp. (myops group)	< 1 mm
<i>Asphinctopone differens</i> *	< 1 mm
<i>Austroponera rufonigra</i> *	< 1 mm
<i>Belonopelta deletrix</i> *	< 1 mm
<i>Boloponera vicans</i> *	< 1 mm
<i>Bothroponera tesseronoda</i>	
<i>Brachyponera luteipes</i>	< 1 mm
<i>Buniapone amblyops</i>	
<i>Centromyrmex angolensis</i> *	< 1 mm
<i>Cryptopone fusciceps</i> *	< 0.5 mm
<i>Diacamma</i> sp.	
<i>Dinoponera quadriceps</i>	
<i>Ectomomyrmex leeuwenhoekii</i>	
<i>Emeryopone buttelreepeni</i>	< 1 mm
<i>Euponera sharpi</i>	< 1 mm
<i>Harpegnathos saltator</i>	
<i>Hypoconera</i> sp.	< 0.5 mm
<i>Iroponera odax</i> *	< 0.5 mm
<i>Leptogenys parvula</i>	< 1 mm
<i>Loboponera subatra</i> *	
<i>Mayaponera constricta</i> *	
<i>Megaponera analis</i> *	
<i>Mesoponera testacea</i>	
<i>Myopias emeryi</i>	< 1 mm

<i>Neoponera moesta</i> *	
<i>Odontomachus pararixosus</i>	
<i>Odontoponera transversa</i>	
<i>Ophthalmopone ilgii</i> *	
<i>Paltothyreus tarsatus</i> *	
<i>Parvaponera darwinii</i>	< 1 mm
<i>Phrynoponera bequaerti</i> *	
<i>Platythyrea parallela</i>	< 1 mm
<i>Plectroctena cryptica</i> *	
<i>Ponera</i> sp. 3	< 0.5 mm
<i>Promyopias silvestrii</i> *	
<i>Psalidomyrmex sallyae</i> *	
<i>Pseudoneoponera insularis</i> ?	
<i>Pseudoconopsea stigma</i> *	< 1 mm
<i>Rasopone ferruginea</i> *	< 1 mm
<i>Simopelta pergandei</i> *	< 1 mm
<i>Streblognathus aethiopicus</i> *	
<i>Thaumatomyrmex</i> sp. spc01*	< 1 mm

#### Proceratiinae

<i>Discothyrea</i> sp.	< 0.5 mm
<i>Probolomyrmex vietii</i>	< 0.5 mm
<i>Proceratium</i> sp.	< 1 mm

#### Pseudomyrmecinae

<i>Myrcidris epicharis</i> *	< 1 mm
<i>Pseudomyrmex</i> sp.	< 1 mm
<i>Tetraponera allaborans</i>	< 1 mm

#### VESPIDAE

(see SHIMA & al. 1994, NOLL & al. 2004, 1998, MURAKAMI & al. 2009; F. Ito, unpubl. )

#### Polistinae

Polistini

*Polistes snelleni*  
*Parapolybia indica*

Ropalidiini

*Belonogaster juncea*  
*Ropalidia fasciata*

Mischocyttarini

*Mischocyttarus cassanunga*

Epiponini

*Angiopolybia pallens*  
*Apoica flavissima*  
*Asteloeca ujhelyii*  
*Charterginus fulvus*  
*Clypearia sulcata*  
*Epipona tatua*  
*Leipomeles dorsata*  
*Metapolybia aztecoides*  
*Nectarinella championi*  
*Polybia rejecta*  
*Protonectarina sylveriae*  
*Protopolybia sedula*  
*Pseudopolybia vespiceps*  
*Synoeca surinama*

#### Stenogastrinae

*Eustenogaster calyptodoma*  
*Liostenogaster flavolineata*  
*Parischnogaster alternata*

## Vespinæ

*Dolichovespula saxonica*  
*Provespa anomala*  
*Vespa crabro*  
*Vespa mandarinia*  
*Vespula shidai*

## APOIDEA

(MICHENER 1971, SAKAGAMI 1975, 1978, REYES 1991, GONZALEZ & GRISWOLD 2011, 2012, RASMUSSEN 2013, ENGELS & al. 2014)

## Crabronidae

*Microstigmus comes*

## Apidae

### Halictinae

*Halictus aerarius*  
*Lasioglossum frigidum*

### Apinae

#### Apini

*Apis (Apis) cerana*  
*Apis (Megapis) dorsata*

*Bombus (Bombus) hypocrita*  
*Bombus (Megabombus) diversus*  
*Bombus (Pyrobombus) ardens*  
*Bombus (Thoracobombus) deuteronymus*  
*Dactylurina staudingeri*  
*Hypotrigona gribodoi*  
(*H. duckei* body length is ca. 2 mm (COCKERELL 1923), but no head width data)  
*Lestrimelitta chamelensis*  
*Lisotrigona cacciae*  
*Meliponula beccarii*  
*Paratrigona wasbaueri*  
*Tetragonula fuscobalteata*  
*Trigona moorei*  
Xylocopini  
*Allodape collaris*  
*Allodapula melanopus*  
*Braunsapis puangensis*  
*Compsomelissa borneri*  
*Ceratina (Ceratina) iwatai*  
*Ceratina (Ceratinidia) okinawana*  
*Ceratina (Pithitis) smaragdula*  
*Exoneura oblitterata*  
*Exoneurella nigrescens*  
*Macrogalea candida*

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**Appendix S2.** List of 20 poneroid and 39 formicoid species used to measure queen-worker differences in dry weights (one representative species for each genus, or for each subgenus in *Camponotus* and *Polyrhachis*). Air-dried specimens were weighed nearest to 0.01 mg with an AG245 Analytical Balance (Mettler Toledo). (\*) indicates queen-worker dimorphism exceeding 10×. Data are summarized in Fig. 5 and Box 3.

### **Poneroid**

**Proceratiinae:** *Discothyrea* sp., *Probolomyrmex dammermani*, *Proceratium* sp.

**Paraponerinae:** *Paraponera clavata*

**Ponerinae:** *Anochetus rugosus*, *Brachyponera batak*, *Buniapone amblyops*, *Centromyrmex feae*, *Cryptopone* sp., *Ectomyrmex* cf. *javanus*, *Euponera sharpi*, *Harpegnathos saltator*, *Hypoconera* sp., *Leptogenys* sp. 12 (*diminuta* group), *Mesoponera* sp., *Myopias* sp., *Odontomachus latidense*, *Odontoponera denticulata*, *Platythyrea quadridenta*, *Ponera kohmoku*

### **Formicoid**

**Ectatomminae:** *Ectatomma ruidum*, *Gnamptogenys costata*

**Dorylinae:** *Cerapachys sulcinodis*

**Dolichoderinae:** *Dolichoderus thoracicus*, *Linepithema humile*, *Tapinoma* sp. (\*), *Technomyrmex septentrionalis*

**Formicinae:** *Acropyga activentris*, *Anoplolepis gracilipes* (\*), *Camponotus (Tanaemyrmex)* sp. (\*), *Camponotus (Colobopsis)* sp., *Camponotus (Myrmanblys)* sp., *Echinopla lineata*, *Euprenolepis procera* (\*), *Formica hayashi*, *Gesomyrmex chaperi* (\*), *Oecophylla smaragdina* (\*), *Paratrechina longicornis*, *Polyrhachis (Myrmatopa)* sp. (\*), *Polyrhachis (Cryptomyrma) laevissima*, *Polyrhachis (Myrma) tyrannica*, *Polyrhachis (Myrmhopla) abdominalis*, *Pseudolasius* sp. (\*)

**Myrmicinae:** *Acanthomyrmex ferox* (\*), *Aphaenogaster* sp., *Carebara diversus* (\*), *Cataulacus granulata*, *Eurhopalothrix* sp., *Leptothorax acervorum*, *Lophomyrmex bedoti* (\*), *Meranoplus malaysianus*, *Myrmicaria* sp. (\*), *Pheidole sperata* (\*), *Pristomyrmex costatus*, *Strumigenys kumadori*, *Temnothorax arimensis*, *Vollenhovia* sp. (\*)

**Myrmeciinae:** *Myrmecia froggatti*

**Pseudomyrmecinae:** *Tetraoponera* cf. *rufonigra*