



## Digital supplementary material to

HSU, P.-W., HUGEL, S., WETTERER, J.K., TSENG, S.-H., OOI, C.-S.M., LEE, C.-Y. & YANG, C.-C.S. 2020: Ant crickets (Orthoptera: Myrmecophilidae) associated with the invasive yellow crazy ant *Anoplolepis gracilipes* (Hymenoptera: Formicidae): evidence for cryptic species and potential co-introduction with hosts. – Myrmecological News 30: 103-129.

The content of this digital supplementary material was subject to the same scientific editorial processing as the article it accompanies. However, the authors are responsible for copyediting and layout.



MN065058	mun2-41-1	cytochrome b	<i>Myrmophilellus pilipes</i>	14-Jun-2017	Malaysia: USM campus, Penang	
MN065059	mun2-41-3	cytochrome b	<i>Myrmophilellus pilipes</i>	14-Jun-2017	Malaysia: USM campus, Penang	
MN065060	mun2-42-1	cytochrome b	<i>Myrmophilellus pilipes</i>	14-Jun-2017	Malaysia: USM campus, Penang	
MN065061	mun2-42-1	cytochrome b	<i>Myrmophilellus pilipes</i>	13-Oct-2017	Malaysia: USM campus, Penang	
MN065062	NMyr1	cytochrome b	<i>Myrmecophilus americanus</i>	2014	Taiwan: Taichung	
MN065063	NMyr2	cytochrome b	<i>Myrmecophilus americanus</i>	2014	Taiwan: Taichung	
MN065064	pheton01C01	cytochrome b	<i>Myrmecophilus quadrispinus</i>	05-Feb-2015	Taiwan: Shalu, Taichung	
MN065065	Phet17.01C05	cytochrome b	<i>Myrmecophilus quadrispinus</i>	11-May-2017	Taiwan: Huisun Forest Area, Ren'ai, Nantou	
MN065066	Phet17.01C06	cytochrome b	<i>Myrmecophilus quadrispinus</i>	11-May-2017	Taiwan: Huisun Forest Area, Ren'ai, Nantou	
MN065067	P1349C02	cytochrome b	<i>Myrmecophilus quadrispinus</i>	10-Jun-2015	Taiwan: Kinmen	
MN065068	P1367C01	cytochrome b	<i>Myrmecophilus quadrispinus</i>	30-Aug-2015	Taiwan: Huisun Forest Area, Ren'ai, Nantou	
MN065069	P1367C02	cytochrome b	<i>Myrmecophilus quadrispinus</i>	30-Aug-2015	Taiwan: Huisun Forest Area, Ren'ai, Nantou	
MN065070	P1368C01	cytochrome b	<i>Myrmecophilus quadrispinus</i>	30-Aug-2015	Taiwan: Huisun Forest Area, Ren'ai, Nantou	
MN065071	plmy100C01	cytochrome b	<i>Myrmophilellus pilipes</i>	10-Jan-2016	Malaysia: Air Itam, Penang	
MN065072	plmy100C02	cytochrome b	<i>Myrmophilellus pilipes</i>	10-Jan-2016	Malaysia: Air Itam, Penang	
MN065073	Plmy89Mame01	cytochrome b	<i>Myrmecophilus americanus</i>	04-Sep-2015	Malaysia: Penang	
MN065074	Plmy89Mame02	cytochrome b	<i>Myrmecophilus americanus</i>	04-Sep-2015	Malaysia: Penang	
MN065075	Plmy89Mame03	cytochrome b	<i>Myrmecophilus americanus</i>	04-Sep-2015	Malaysia: Penang	
MN065076	plTH22Mame01	cytochrome b	<i>Myrmecophilus americanus</i>	01-Aug-2015	Thailand: Amphoe Wiset Chai Chan, Chang Wat Ang Thong	
MN065077	plTH29Mame01	cytochrome b	<i>Myrmecophilus americanus</i>	02-Aug-2015	Thailand: Amphoe Phra Nakhon Si Ayutthaya, Chang Wat Phra Nakhon Si Ayutthaya	
MN065078	14.387	cytochrome b	<i>Myrmecophilus mayacalberti</i>	29-Jul-2014	Singapore: Harbourfront	
MN065079	211C1	cytochrome b	<i>Myrmecophilus hebari</i>	2018	Taiwan: Hengchun, Pingtung	
MN065080	211C2	cytochrome b	<i>Myrmecophilus hebari</i>	2018	Taiwan: Hengchun, Pingtung	
MN065081	230B	cytochrome b	<i>Myrmecophilus quadrispinus</i>	2018	Taiwan: Hengchun, Pingtung	
MN065082	230B2	cytochrome b	<i>Myrmecophilus quadrispinus</i>	2018	Taiwan: Hengchun, Pingtung	
MN065083	230C10	cytochrome b	<i>Myrmecophilus hebari</i>	2018	Taiwan: Hengchun, Pingtung	
MN065084	A36.2C01	cytochrome b	<i>Myrmecophilus antilucanus</i>	09-May-2015	Malaysia: USM campus, Penang	Paratype
MN065085	A36.2C05	cytochrome b	<i>Myrmecophilus antilucanus</i>	09-May-2015	Malaysia: USM campus, Penang	
MN065086	A36.2C06	cytochrome b	<i>Myrmecophilus antilucanus</i>	09-May-2015	Malaysia: USM campus, Penang	
MN065087	AG077C1	cytochrome b	<i>Myrmecophilus antilucanus</i>	10-Jan-2019	Malaysia: USM campus, Penang	
MN065088	AG077C2	cytochrome b	<i>Myrmecophilus antilucanus</i>	10-Jan-2019	Malaysia: USM campus, Penang	
MN065089	AG081C02	cytochrome b	<i>Myrmecophilus dubius</i>	11-Jan-2019	Malaysia: Lebuh Bukit Jambul, Penang	
MN065090	AG081C2	cytochrome b	<i>Myrmecophilus dubius</i>	11-Jan-2019	Malaysia: Lebuh Bukit Jambul, Penang	
MN065091	AG082C1	cytochrome b	<i>Myrmecophilus antilucanus</i>	11-Jan-2019	Malaysia: USM campus, Penang	
MN065092	AG082C2	cytochrome b	<i>Myrmecophilus antilucanus</i>	11-Jan-2019	Malaysia: USM campus, Penang	
MN065093	AG082C3	cytochrome b	<i>Myrmecophilus antilucanus</i>	11-Jan-2019	Malaysia: USM campus, Penang	
MN065094	AgdP18.2C1	cytochrome b	<i>Myrmecophilus quadrispinus</i>	11-May-2018	Malaysia: Botanical gardens, Penang	
MN065095	AgdP18.2C2	cytochrome b	<i>Myrmecophilus quadrispinus</i>	11-May-2018	Malaysia: Botanical gardens, Penang	
MN065096	Ano125C01	cytochrome b	<i>Myrmecophilus mayacalberti</i>	03-Apr-2016	Taiwan: Dawu, Taitung	
MN065097	Ano125C03	cytochrome b	<i>Myrmecophilus mayacalberti</i>	03-Apr-2016	Taiwan: Dawu, Taitung	
MN065098	Ano125C07	cytochrome b	<i>Myrmecophilus mayacalberti</i>	03-Apr-2016	Taiwan: Dawu, Taitung	
MN065099	Ano17.01C09	cytochrome b	<i>Myrmecophilus hebari</i>	23-Jun-2017	Taiwan: Hengchun, Pingtung	
MN065100	Ano17.08C1	cytochrome b	<i>Myrmecophilus hebari</i>	2017	Taiwan: Hengchun, Pingtung	
MN065101	Ano17.09C01	cytochrome b	<i>Myrmecophilus hebari</i>	08-Aug-2017	Taiwan: Hengchun, Pingtung	
MN065102	Ano17.10C03	cytochrome b	<i>Myrmecophilus hebari</i>	08-Aug-2017	Taiwan: Hengchun, Pingtung	
MN065103	Ano17.11C01	cytochrome b	<i>Myrmecophilus hebari</i>	08-Aug-2017	Taiwan: Hengchun, Pingtung	
MN065104	Ano40C01	cytochrome b	<i>Myrmecophilus hebari</i>	12-Apr-2014	Taiwan: Maolin, Kaohsiung	
MN065105	Ano68C03	cytochrome b	<i>Myrmecophilus quadrispinus</i>	07-Nov-2014	Taiwan: Wulai, New Taipei	
MN065106	Ano68C04	cytochrome b	<i>Myrmecophilus quadrispinus</i>	07-Nov-2014	Taiwan: Wulai, New Taipei	
MN065107	Ano71C01	cytochrome b	<i>Myrmecophilus quadrispinus</i>	16-Nov-2014	Taiwan: Xinlin, Hualien	
MN065108	AnoMY17C2	cytochrome b	<i>Myrmecophilus antilucanus</i>	01-Mar-2018	Malaysia: Penang National Park, Penang	
MN065109	AnoMY18C4	cytochrome b	<i>Myrmecophilus antilucanus</i>	01-Mar-2018	Malaysia: Penang National Park, Penang	
MN065110	AnoMY18C7	cytochrome b	<i>Myrmecophilus antilucanus</i>	01-Mar-2018	Malaysia: Penang National Park, Penang	
MN065111	AnoMY24C1	cytochrome b	<i>Myrmecophilus albicinctus</i>	07-Mar-2018	Malaysia: Balik Pulau, Penang	
MN065112	Anomy35C02	cytochrome b	<i>Myrmecophilus dubius</i>	25-Mar-2015	Malaysia: USM campus, Penang	
MN065113	Anomy35C03	cytochrome b	<i>Myrmecophilus hebari</i>	25-Mar-2015	Malaysia: USM campus, Penang	
MN065114	Anomy35C04	cytochrome b	<i>Myrmecophilus hebari</i>	25-Mar-2015	Malaysia: USM campus, Penang	
MN065115	Anomy35C05	cytochrome b	<i>Myrmecophilus hebari</i>	25-Mar-2015	Malaysia: USM campus, Penang	
MN065116	Anomy35C06	cytochrome b	<i>Myrmecophilus hebari</i>	25-Mar-2015	Malaysia: USM campus, Penang	
MN065117	Anomy36.2C10	cytochrome b	<i>Myrmecophilus antilucanus</i>	09-May-2015	Malaysia: USM campus, Penang	
MN065118	Anomy36.2C7	cytochrome b	<i>Myrmecophilus pilipes</i>	09-May-2015	Malaysia: USM campus, Penang	
MN065119	Anomy36.2C08	cytochrome b	<i>Myrmecophilus antilucanus</i>	09-May-2015	Malaysia: USM campus, Penang	
MN065120	Anomy36C01	cytochrome b	<i>Myrmecophilus hebari</i>	09-May-2015	Malaysia: USM campus, Penang	
MN065121	AnoNT01C06	cytochrome b	<i>Myrmecophilus albicinctus</i>	21-Apr-2016	Taiwan: NTU experimental forest, Chushan, Nantou	
MN065122	Cam01C06	cytochrome b	<i>Myrmophilellus pilipes</i>	07-Jan-2016	Malaysia: Lebuh Relau, Penang	
MN065123	Hag87-1	cytochrome b	<i>Myrmecophilus americanus</i>	12-Aug-2014	France: Tartane, Martinique	
MN065124	m08.667.C2	cytochrome b	<i>Myrmecophilus americanus</i>	04-Jun-2008	Netherlands: Seru Laru, Bonaire	
MN065125	mam80-1	cytochrome b	<i>Myrmecophilus americanus</i>	8-Nov-2017	Malaysia: Lorong Kampung Melayu, Penang	
MN065126	man91-1	cytochrome b	<i>Myrmecophilus americanus</i>	8-Nov-2017	Malaysia: Lorong Kampung Melayu, Penang	
MN065127	SH-may	cytochrome b	<i>Myrmecophilus mayacalberti</i>	24-Jan-2004	Seychelles	
MN065128	mp-7	cytochrome b	<i>Myrmecophilus hebari</i>	18-Jul-2017	Malaysia: Botanical gardens, Penang	
MN065129	mun2-41-1	cytochrome b	<i>Myrmophilellus pilipes</i>	14-Jun-2017	Malaysia: USM campus, Penang	
MN065130	mun2-44-1	cytochrome b	<i>Myrmophilellus pilipes</i>	13-Oct-2017	Malaysia: USM campus, Penang	
MN065131	MyrF	cytochrome b	<i>Myrmecophilus americanus</i>	2014	Taiwan: Taichung	
MN065132	palM	cytochrome b	<i>Myrmecophilus sp.</i>	18-Apr-2019	Nepal: Pithivi Highway, Jyas	lymph, not used in this study
MN065133	PhenP1C1	cytochrome b	<i>Myrmecophilus sp.</i>	18-Apr-2019	Nepal: Pithivi Highway, Jyas	lymph, not used in this study
MN065134	Pheton01C04.2	cytochrome b	<i>Myrmecophilus quadrispinus</i>	05-Feb-2015	Taiwan: Shalu, Taichung	
MN065135	P1349C01	cytochrome b	<i>Myrmecophilus quadrispinus</i>	10-Jun-2015	Taiwan: Kinmen	
MN065136	P1381C11	cytochrome b	<i>Myrmecophilus americanus</i>	22-Jun-2017	Taiwan: Fangshan, Pingtung	
MN065137	P10KCC1	cytochrome b	<i>Myrmecophilus quadrispinus</i>	08-Oct-2018	Japan: Nishizaki, Ioman, Okinawa	
MN065138	P1SG04C01	cytochrome b	<i>Myrmophilellus pilipes</i>	19-Aug-2016	Singapore: Mount Faber Park	
MN065139	po101C01	cytochrome b	<i>Myrmecophilus caliginosus</i>	27-Sep-2015	Taiwan: Linkou, New Taipei	
MN065140	Pol18.1C1	cytochrome b	<i>Myrmecophilus quadrispinus</i>	16-Nov-2018	Taiwan: Linkou, New Taipei	
MN065141	Qmqr	cytochrome b	<i>Myrmecophilus americanus</i>	2014	Taiwan: New Taipei	
MN065142	SH-MUS	cytochrome b	<i>Myrmecophilus quadrispinus</i>	2008	Mauritius	#60
MN065143	SH-PF	cytochrome b	<i>Myrmecophilus quadrispinus</i>	2008	France: French Polynesia	
MN065144	SH-pip	cytochrome b	<i>Myrmophilellus pilipes</i>	2008	Mauritius	#63
MN065145	Sin18.1C1	cytochrome b	<i>Myrmecophilus quadrispinus</i>	16-Nov-2018	Taiwan: Linkou, New Taipei	
MN065146	Sin18.1C2	cytochrome b	<i>Myrmecophilus quadrispinus</i>	16-Nov-2018	Taiwan: Linkou, New Taipei	
MN065147	Smyr	cytochrome b	<i>Myrmecophilus americanus</i>	2014	Taiwan: Taoyuan	

## Supplementary file 2\_GPS coordinates for all ant cricket samples in this study

Species	Location	Latitude	Longitude	Note
<i>Myrmecophilus albicinctus</i>	Xinyi Rd., Daxi Dist., Taoyuan, TAIWAN	24.89239826	121.3275548	
<i>Myrmecophilus albicinctus</i>	Penang Botanical Gardens, Penang, MALAYSIA	5.438779831	100.2911682	
<i>Myrmecophilus albicinctus</i>	Aman Hostel, Universiti Sains Malaysia, Penang, MALAYSIA	5.354188	100.297941	
<i>Myrmecophilus albicinctus</i>	Pak Chong Dist., Nong Sarai, THAILAND	14.83454386	101.5498545	
<i>Myrmecophilus albicinctus</i>	Onna-son, Kunigami-gun, Okinawa, JAPAN	26.44752704	127.803642	
<i>Myrmecophilus albicinctus</i>	University of the Ryukyus, Okinawa, JAPAN	26.251022	127.76645	*
<i>Myrmecophilus albicinctus</i>	Penang National Park, Penang, MALAYSIA	5.4620008	100.189996	*
<i>Myrmecophilus albicinctus</i>	Dawu, Taitung, TAIWAN	22.359264	120.90515	*
<i>Myrmecophilus albicinctus</i>	National Taiwan University experimental forest, Chushan, Nantou, TAIWAN	23.6745178	120.7972515	*
<i>Myrmecophilus albicinctus</i>	Koshidake, Iheya-jima, Okinawa, JAPAN	27.046068	127.961359	Komatsu & Maruyama 2016b*
<i>Myrmecophilus albicinctus</i>	Gusukube-sunagawa, Miyakojima-shi, Miyako-jima, Okinawa, JAPAN	24.739087	125.353249	Komatsu & Maruyama 2016b*
<i>Myrmecophilus albicinctus</i>	Urasoe, Okinawa-jima, Okinawa, JAPAN	26.247481	127.722572	Komatsu & Maruyama 2016b*
<i>Myrmecophilus albicinctus</i>	Yona, Kunigami-son, Okinawa-jima, Okinawa, JAPAN	26.764413	128.206023	Komatsu & Maruyama 2016b*
<i>Myrmecophilus albicinctus</i>	Daruma-yama, Kume-jima, Okinawa, JAPAN	26.3607907	126.7619598	Komatsu & Maruyama 2016b*
<i>Myrmecophilus albicinctus</i>	Jalan Ir. Haji Juanda No.13, 16122, Bogor Botanical Gardens, Bogor, INDONESIA	-6.5976289	106.7973811	Komatsu & Maruyama 2016b*
<i>Myrmecophilus albicinctus</i>	Limau Manis Kec. Pauh, Kota Padang, Sumatera Barat, Andalas University, INDONESIA	-0.914559	100.4595468	Komatsu & Maruyama 2016b*
<i>Myrmecophilus albicinctus</i>	Kaeng Krachan National Park, Phetchaburi, THAILAND	12.968222	99.400336	Komatsu & Maruyama 2016b*
<i>Myrmecophilus albicinctus</i>	Field Studies Centre of the University of Malaya, Ulu Gombak, Selangor, MALAYSIA	3.3253767	101.745451	Komatsu & Maruyama 2016b*
<i>Myrmecophilus albicinctus</i>	Jalan Universiti, 50603 Kuala Lumpur, Wilayah Persekutuan Kuala Lumpur, MALAYSIA	3.115996	101.650249	Komatsu & Maruyama 2016b*
<i>Myrmecophilus albicinctus</i>	Ishikaki Islands, JAPAN	24.4709922	124.0649125	Maruyama 2006*
<i>Myrmecophilus albicinctus</i>	Iriomote Islands, JAPAN	24.29502	123.878853	Maruyama 2006*
<i>Myrmecophilus albicinctus</i>	Chilka Lake, Barkuda, INDIA	19.553889	85.130536	Chopard 1924*
<i>Myrmecophilus hebaridi</i>	Aman Hostel, Universiti Sains Malaysia, Penang, MALAYSIA,	5.354188	100.297941	
<i>Myrmecophilus hebaridi</i>	Subaidah, Universiti Sains Malaysia, Penang, MALAYSIA	5.356826	100.304936	
<i>Myrmecophilus hebaridi</i>	Lebuh Relau, Penang, MALAYSIA	5.34602499	100.2715759	
<i>Myrmecophilus hebaridi</i>	Pak Chong Dist., Nong Sarai, THAILAND	14.83454386	101.5498545	
<i>Myrmecophilus hebaridi</i>	Maolin, Kaohsiung, TAIWAN	22.969407	120.687792	
<i>Myrmecophilus hebaridi</i>	Hengchun, Kenting, TAIWAN	21.925251	120.834094	
<i>Myrmecophilus hebaridi</i>	National Taiwan University experimental forest, Chushan, Nantou, TAIWAN	23.6745178	120.7972515	*
<i>Myrmecophilus hebaridi</i>	Da-Yeh University, Changhua, TAIWAN	24.001744	120.596538	*
<i>Myrmecophilus hebaridi</i>	Taveuni Island, FIJI	-16.855217	-179.980492	Mann 1920*
<i>Myrmecophilus hebaridi</i>	Lakeba Island, FIJI	-18.208968	-178.79527	Mann 1920*
<i>Myrmecophilus hebaridi</i>	Munia Island, FIJI	-17.36839	-178.879681	Mann 1920*
<i>Myrmecophilus hebaridi</i>	Kabara Island, FIJI	-18.950501	-178.955534	Mann 1920*
<i>Myrmecophilus hebaridi</i>	Viti Levu, FIJI	-17.8467	178.011332	Mann 1920*
<i>Myrmecophilus hebaridi</i>	Vunisea, Kadavu Island, FIJI	-19.044493	178.162097	Mann 1920*
<i>Myrmecophilus hebaridi</i>	Graciosa Bay, Santa Cruz Islands, SOLOMON ISLANDS	-10.724275	165.797801	Mann 1920*
<i>Myrmecophilus hebaridi</i>	Pamua, SOLOMON ISLANDS	-10.411001	161.750625	Mann 1920*
<i>Myrmecophilus hebaridi</i>	Wainoni bay, SOLOMON ISLANDS	-10.499255	161.993608	Mann 1920*
<i>Myrmecophilus dubius</i>	Penang Botanical Gardens, Penang, MALAYSIA	5.438779831	100.2911682	
<i>Myrmecophilus dubius</i>	Universiti Sains Malaysia, Penang, MALAYSIA	5.356112	100.301252	
<i>Myrmecophilus dubius</i>	Penang National Park, Penang, MALAYSIA	5.4620008	100.189996	*
<i>Myrmecophilus dubius</i>	Arunachal Pradesh, Subansiri dist., Tamen. Boa-Simla, INDIA	27.733887	93.991692	Vasanth 1993*
<i>Myrmecophilus dubius</i>	Meghalaya, Khasi Hills dist., Shillong, INDIA	25.584834	91.890374	Vasanth 1993*
<i>Myrmecophilus dubius</i>	Sumatra, INDONESIA			Vasanth 1993*
<i>Myrmecophilus dubius</i>	Peradeniya, SRI LANKA	7.265628	80.598621	Chopard 1925*
<i>Myrmecophilus dubius</i>	Kanara, INDIA	14.883333	74.583333	Wasmann 1894*
<i>Myrmecophilus dubius</i>	Bintang Island, INDONESIA	1.11707	104.432691	Saussure 1877*
<i>Myrmecophilus antilucanus</i>	National Taiwan University, Taipei, TAIWAN	25.016345	121.537837	
<i>Myrmecophilus antilucanus</i>	Zhoushan Rd., Da'an Dist., Taipei, TAIWAN	25.015094	121.538535	
<i>Myrmecophilus antilucanus</i>	Hsinpu, Hsinchu, TAIWAN	24.828772	121.081872	
<i>Myrmecophilus antilucanus</i>	Sanwan, Miaoli, TAIWAN	24.64808926	120.954647	
<i>Myrmecophilus antilucanus</i>	Subaidah, Universiti Sains Malaysia, Penang, MALAYSIA	5.356826	100.304936	
<i>Myrmecophilus antilucanus</i>	School of Biological Sciences, Universiti Sains Malaysia, Penang, MALAYSIA	5.356112	100.301252	
<i>Myrmecophilus antilucanus</i>	Badminton court, Universiti Sains Malaysia, Penang, MALAYSIA	5.357411	100.308314	
<i>Myrmecophilus antilucanus</i>	Penang, Penang National Park, MALAYSIA	5.46744	100.200226	
<i>Myrmecophilus antilucanus</i>	Universiti Sains Malaysia, Penang, MALAYSIA	5.359	100.3025	
<i>Myrmecophilus antilucanus</i>	Penang, Penang National Park, MALAYSIA	5.4675	100.2004	
<i>Myrmecophilus antilucanus</i>	Nong Sarai, Pak Chong District, THAILAND	14.83454386	101.5498545	
<i>Myrmecophilus pallidithorax</i>	Poring Hot Spring, Mt. Kinabalu, Sabah, Borneo, MALAYSIA	6.083333	116.55	Ingrisch 2010
<i>Myrmecophilus ikaros</i>	Long Akar (Long Akah), Sarawak, Borneo, MALAYSIA	3.31352	114.7939	Chopard 1930*
<i>Myrmecophilus mayaealberti</i>	Cameron Highland, MALAYSIA	4.440281	101.487817	*
<i>Myrmecophilus mayaealberti</i>	HarbourFront, SINGAPORE	1.267206	103.802206	*
<i>Myrmecophilus mayaealberti</i>	Dawu, Taitung, TAIWAN	22.359264	120.90515	*
<i>Myrmecophilus mayaealberti</i>	Anse Nord-Est, Mahe, SEYCHELLES	-4.57103	55.459032	Hugel & Matyot 2006*
<i>Myrmecophilus quadrispina</i>	Wulai St., Wulai Dist., New Taipei, TAIWAN	24.864532	121.552333	
<i>Myrmecophilus quadrispina</i>	Xiulin, Hualien, TAIWAN	23.96635	121.488337	
<i>Myrmecophilus quadrispina</i>	Hsinpu, Hsinchu, TAIWAN	24.828772	121.081872	
<i>Myrmecophilus quadrispina</i>	Sanwan, Miaoli, TAIWAN	24.64808926	120.954647	
<i>Myrmecophilus quadrispina</i>	Shalu., Taichung, TAIWAN	24.22547531	120.5848999	
<i>Myrmecophilus quadrispina</i>	Taipung, Taichung, TAIWAN	24.112905	120.722396	
<i>Myrmecophilus quadrispina</i>	Kinmen, TAIWAN	24.429573	118.337079	
<i>Myrmecophilus quadrispina</i>	Huisun experimental forest, Nantou, TAIWAN	24.090751	121.032977	
<i>Myrmecophilus quadrispina</i>	Huisun experimental forest, Nantou, TAIWAN	24.091779	121.034717	
<i>Myrmecophilus quadrispina</i>	Hengchun, Kenting, TAIWAN	21.925251	120.834094	
<i>Myrmecophilus quadrispina</i>	Dingfu, Linkou, New Taipei, TAIWAN	25.092278	121.354139	
<i>Myrmecophilus quadrispina</i>	JiaBao Elementary School, Linkou, New Taipei, TAIWAN	25.108547	121.3386	
<i>Myrmecophilus quadrispina</i>	Nishizaki, Itohan, Okinawa, JAPAN	26.137079	127.662991	
<i>Myrmecophilus quadrispina</i>	MAURITIUS	-20.27644	57.574601	*
<i>Myrmecophilus quadrispina</i>	French Polynesia, FRANCE	-17.644084	-149.458081	*
<i>Myrmecophilus quadrispina</i>	Wufeng, Taichung, TAIWAN	24.050966	120.780604	*
<i>Myrmecophilus quadrispina</i>	University of the Ryukyus, Okinawa, JAPAN	26.251022	127.76645	*
<i>Myrmecophilus quadrispina</i>	LA REUNION	-21.133601	55.5273	Chintauan-Marquier 2016
<i>Myrmecophilus quadrispina</i>	Tutuila, Fagasa, SAMOA	-14.286648	-170.717499	Desutter-Grandcolas 1997*
<i>Myrmecophilus quadrispina</i>	Cap des Pins, Lifou, Loyaute Islands, New Caledonia, FRANCE	-21.066021	167.437707	Desutter-Grandcolas 1997*
<i>Myrmecophilus quadrispina</i>	Anpin, TAIWAN	22.989408	120.161417	Shiraki 1930*
<i>Myrmecophilus quadrispina</i>	Takao, TAIWAN	22.613175	120.302012	Shiraki 1930*
<i>Myrmecophilus quadrispina</i>	Waipahu, Oahu, Hawaii, USA	21.387577	-158.009913	Hebard 1922*
<i>Myrmecophilus quadrispina</i>	Aiea Valley, Oahu, Hawaii, USA	21.385739	-157.923657	Hebard 1922*
<i>Myrmecophilus quadrispina</i>	Honolulu, Oahu, Hawaii, USA	21.297868	-157.81764	Perkins 1899*
<i>Myrmophilellus pilipes</i>	Lebuh Relau, Penang, MALAYSIA	5.34602499	100.2715759	
<i>Myrmophilellus pilipes</i>	Air Itam, Penang, MALAYSIA	5.37263298	100.2756119	
<i>Myrmophilellus pilipes</i>	Universiti Sains Malaysia, Penang, MALAYSIA	5.359	100.3025	
<i>Myrmophilellus pilipes</i>	MAURITIUS	-20.27644	57.574601	*
<i>Myrmophilellus pilipes</i>	Kasetsart University, Ngam Wong Wan Road, Chatuchak, Bangkok, THAILAND	13.844009	100.568005	Komatsu & Maruyama 2016a*
<i>Myrmophilellus pilipes</i>	Doi Suthop-Pui National Park Lodging, Mueang Chiang Mai, THAILAND	18.807018	98.915938	Komatsu & Maruyama 2016a*
<i>Myrmophilellus pilipes</i>	1.7 km east of Neak Pean, Angkor, Siem Reap, CAMBODIA	13.462889	103.911656	Komatsu & Maruyama 2016a*
<i>Myrmophilellus pilipes</i>	Mt. Halcon, Mindoro, PHILIPPINES	13.262028	120.995471	Komatsu & Maruyama 2016a*
<i>Myrmophilellus pilipes</i>	Taman Rawiyah Sulaiman Jaya, Wilayah Persekutuan Kuala Lumpur, MALAYSIA	3.2508	101.721411	Komatsu & Maruyama 2016a*
<i>Myrmophilellus pilipes</i>	Jalan Gombak, Selangor, Kuala Lumpur, MALAYSIA	3.218187	101.712892	Komatsu & Maruyama 2016a*
<i>Myrmophilellus pilipes</i>	University of Malaya, Jalan Universiti, Kuala Lumpur, MALAYSIA	3.120166	101.654582	Komatsu & Maruyama 2016a*
<i>Myrmophilellus pilipes</i>	Jalan Tapah, Brinchang, Blue Valley, Cameron Highlands, Tapah, Perak, MALAYSIA	4.23189	101.295228	Komatsu & Maruyama 2016a*
<i>Myrmophilellus pilipes</i>	Kent Ridge Park, Vigilante Dr, SINGAPORE	1.285726	103.789768	Komatsu & Maruyama 2016a*
<i>Myrmophilellus pilipes</i>	Bogor Botanical Gardens, Jalan Ir. Haji Juanda, Java, INDONESIA	-6.597612	106.797259	Komatsu & Maruyama 2016a*
<i>Myrmophilellus pilipes</i>	University of Kelaniya, Dalugama, Kelaniya, SRI LANKA	6.973077	79.915983	Komatsu & Maruyama 2016a*
<i>Myrmophilellus pilipes</i>	Samchi, BHUTAN	27.048862	89.064634	Ingrisch 2010
<i>Myrmophilellus pilipes</i>	INDIA			Ingrisch 2010*

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Supplementary file 3\_Profile information for adult ant crickets that were morphologically examined in this study

ID	Collection_date	mtDNA/classification	Sex	Location	Note
Ano105C02	2015.VIII.19	<i>Myrmecophilus antilucanus</i>	female	Taiwan, Taipei, NTU campus	
Ano125C01	2016.IV.03	<i>Myrmecophilus mayaealberti</i>	female	Taiwan, Taiwan, Taitung Dawu Township	
Ano125C02	2016.IV.03	<i>Myrmecophilus albicinctus</i>	female	Taiwan, Taiwan, Taitung Dawu Township	
Ano125C04	2016.IV.03	<i>Myrmecophilus albicinctus</i>	female	Taiwan, Taiwan, Taitung Dawu Township	
Ano125C05	2016.IV.03	<i>Myrmecophilus albicinctus</i>	female	Taiwan, Taiwan, Taitung Dawu Township	
Ano125C06	2016.IV.03	<i>Myrmecophilus albicinctus</i>	female	Taiwan, Taiwan, Taitung Dawu Township	
Ano125C08	2016.IV.03	<i>Myrmecophilus albicinctus</i>	female	Taiwan, Taiwan, Taitung Dawu Township	
Ano125C09	2016.IV.03	<i>Myrmecophilus albicinctus</i>	female	Taiwan, Taiwan, Taitung Dawu Township	
Ano125C10	2016.IV.03	<i>Myrmecophilus albicinctus</i>	male	Taiwan, Taiwan, Taitung Dawu Township	
Ano125C11	2016.IV.03	<i>Myrmecophilus albicinctus</i>	female	Taiwan, Taiwan, Taitung Dawu Township	
Ano40.C01	2014.IV.12	<i>Myrmecophilus hebaridi</i>	male	Taiwan, Kaohsiung, Maolin Dist.	
Ano71.C01	2014.XI.16	<i>Myrmecophilus quadrispina</i>	male	Taiwan, Hualien, Xiulin Township	
Ano84.C01	2014.IX.25	<i>Myrmecophilus albicinctus</i>	male	Taiwan, Taoyuan, Daxi Dist., Xinyi Rd.	
Ano84.C02	2014.IX.25	<i>Myrmecophilus albicinctus</i>	female	Taiwan, Taoyuan, Daxi Dist., Xinyi Rd.	
Ano84.C03	2014.IX.25	<i>Myrmecophilus albicinctus</i>	female	Taiwan, Taoyuan, Daxi Dist., Xinyi Rd.	
Ano84.C04	2014.IX.25	<i>Myrmecophilus albicinctus</i>	male	Taiwan, Taoyuan, Daxi Dist., Xinyi Rd.	
Ano95C01	2015.VII.13	<i>Myrmecophilus antilucanus</i>	male	Taiwan, Hsinpu town	
Ano95C05	2015.VII.13	<i>Myrmecophilus antilucanus</i>	male	Taiwan, Hsinpu town	
Ano95C06	2015.VII.13	<i>Myrmecophilus antilucanus</i>	male	Taiwan, Hsinpu town	
Ano95C20	2015.VII.13	<i>Myrmecophilus quadrispina</i>	female	Taiwan, Hsinpu town	
Ano97C01	2015.VII.13	<i>Myrmecophilus antilucanus</i>	female	Taiwan, Miaoli, Sanwan	
Ano97C03	2015.VII.13	<i>Myrmecophilus quadrispina</i>	male	Taiwan, Miaoli, Sanwan	
AnoBot01C02	2016.I.07	<i>Myrmecophilus dubius</i>	female	Malaysia, Penang, Botanical gardens	
AnoBot01C03	2016.I.07	<i>Myrmecophilus albicinctus</i>	male	Malaysia, Penang, Botanical gardens	
AnoBot01C04	2016.I.07	<i>Myrmecophilus dubius</i>	female	Malaysia, Penang, Botanical gardens	
AnoBot01C05	2016.I.07	<i>Myrmecophilus albicinctus</i>	female	Malaysia, Penang, Botanical gardens	
AnoBTG01	2016.III.25	<i>Myrmecophilus dubius</i>	male	Malaysia, Penang, Botanical gardens	
AnoBTG02	2016.III.25	<i>Myrmecophilus dubius</i>	male	Malaysia, Penang, Botanical gardens	
AnoBTG03	2016.III.25	<i>Myrmecophilus dubius</i>	male	Malaysia, Penang, Botanical gardens	
AnoBTG04	2016.III.25	<i>Myrmecophilus dubius</i>	female	Malaysia, Penang, Botanical gardens	
AnoBTG05	2016.III.25	<i>Myrmecophilus dubius</i>	female	Malaysia, Penang, Botanical gardens	
AnoBTG06	2016.III.25	<i>Myrmecophilus dubius</i>	male	Malaysia, Penang, Botanical gardens	
Anodyu01C01	2015.XII.10	<i>Myrmecophilus hebaridi</i>	male	Taiwan, Taichung, Da-Yeh University	
Anodyu01C02	2015.XII.10	<i>Myrmecophilus hebaridi</i>	male	Taiwan, Taichung, Da-Yeh University	
Anodyu01C03	2015.XII.10	<i>Myrmecophilus hebaridi</i>	female	Taiwan, Taichung, Da-Yeh University	
Anodyu01C04	2015.XII.10	<i>Myrmecophilus hebaridi</i>	female	Taiwan, Taichung, Da-Yeh University	
AnoK101C01	2016.I.08	<i>Myrmecophilus dubius</i>	female	Malaysia, Penang, Penang National Park	
AnoK101C02	2016.I.08	<i>Myrmecophilus dubius</i>	male	Malaysia, Penang, Penang National Park	
AnoK101C03	2016.I.08	<i>Myrmecophilus albicinctus</i>	male	Malaysia, Penang, Penang National Park	
AnoK101C04	2016.I.08	<i>Myrmecophilus albicinctus</i>	female	Malaysia, Penang, Penang National Park	
AnoK101C05	2016.I.08	<i>Myrmecophilus dubius</i>	female	Malaysia, Penang, Penang National Park	
AnoK101C06	2016.I.08	<i>Myrmecophilus albicinctus</i>	male	Malaysia, Penang, Penang National Park	
Anomy35C01	2015.III.25	<i>Myrmecophilus albicinctus</i>	male	Malaysia, Penang, USM	
Anomy35C09	2015.III.25	<i>Myrmecophilus albicinctus</i>	female	Malaysia, Penang, USM	
Anomy35C10	2015.III.25	<i>Myrmecophilus albicinctus</i>	female	Malaysia, Penang, USM	
Anomy35C12	2015.III.25	<i>Myrmecophilus albicinctus</i>	female	Malaysia, Penang, USM	
Anomy36.2C01	2015.V.09	<i>Myrmecophilus antilucanus</i>	male	Malaysia, Penang, USM	paratype
Anomy36.2C04	2015.V.09	<i>Myrmecophilus antilucanus</i>	female	Malaysia, Penang, USM	
Anomy36.2C05	2015.V.09	<i>Myrmecophilus antilucanus</i>	male	Malaysia, Penang, USM	
Anomy36.2C06	2015.V.09	<i>Myrmecophilus antilucanus</i>	male	Malaysia, Penang, USM	
Anomy36.2C09	2015.V.09	<i>Myrmecophilus antilucanus</i>	female	Malaysia, Penang, USM	paratype
Anomy36.2C10	2015.V.09	<i>Myrmecophilus antilucanus</i>	female	Malaysia, Penang, USM	holotype
Anomy36.2C12	2015.V.09	<i>Myrmecophilus albicinctus</i>	female	Malaysia, Penang, USM	
Anomy36.2C13	2015.V.09	<i>Myrmecophilus albicinctus</i>	male	Malaysia, Penang, USM	
Anomy36C01	2015.III.21	<i>Myrmecophilus hebaridi</i>	female	Malaysia, Penang, USM	
Anomy36C02	2015.III.21	<i>Myrmecophilus albicinctus</i>	male	Malaysia, Penang, USM	
Anomy36C03	2015.III.21	<i>Myrmecophilus albicinctus</i>	male	Malaysia, Penang, USM	
AnoNT01C02	2016.IV.21	<i>Myrmecophilus albicinctus</i>	female	Taiwan, Nantou, Chushan, NTU experimental forest	
AnoNT01C03	2016.IV.21	<i>Myrmecophilus hebaridi</i>	male	Taiwan, Nantou, Chushan, NTU experimental forest	
AnoNT01C04	2016.IV.21	<i>Myrmecophilus albicinctus</i>	female	Taiwan, Nantou, Chushan, NTU experimental forest	
AnoNT01C05	2016.IV.21	<i>Myrmecophilus hebaridi</i>	male	Taiwan, Nantou, Chushan, NTU experimental forest	
AnoNT01C06	2016.IV.21	<i>Myrmecophilus albicinctus</i>	male	Taiwan, Nantou, Chushan, NTU experimental forest	
AnoNT01C07	2016.IV.21	<i>Myrmecophilus hebaridi</i>	female	Taiwan, Nantou, Chushan, NTU experimental forest	
AnoNT01C10	2016.IV.21	<i>Myrmecophilus albicinctus</i>	male	Taiwan, Nantou, Chushan, NTU experimental forest	
AnoNT01C12	2016.IV.21	<i>Myrmecophilus albicinctus</i>	female	Taiwan, Nantou, Chushan, NTU experimental forest	
AnoTH04C02	2015.VIII.06	<i>Myrmecophilus albicinctus</i>	male	Thailand, Nong Sarai, Pak Chong District	
AnoTH04C03	2015.VIII.06	<i>Myrmecophilus antilucanus</i>	female	Thailand, Nong Sarai, Pak Chong District	
AnoTH04C06	2015.VIII.06	<i>Myrmecophilus hebaridi</i>	male	Thailand, Nong Sarai, Pak Chong District	
Cam01C05	2016.I.07	<i>Myrmecophilus hebaridi</i>	female	Malaysia, Penang, Lebuh Relau	
Dia01C01	2016.I.07	<i>Myrmophillellus pilipes</i>	male	Malaysia, Penang, Lebuh Relau	
Dia01C02	2016.I.07	<i>Myrmophillellus pilipes</i>	female	Malaysia, Penang, Lebuh Relau	
pheton01.C03	2015.II.05	<i>Myrmecophilus quadrispina</i>	female	Taiwan, Taichung, Shalu Dist.	
pheton01.C04	2015.II.05	<i>Myrmecophilus quadrispina</i>	male	Taiwan, Taichung, Shalu Dist.	
AnoJP46C02	2018.I.12	<i>Myrmecophilus albicinctus</i>	female	Japan, Okinawa, Onna-son, Kunigami-gun	
AnoJP47C01	2018.I.12	<i>Myrmecophilus albicinctus</i>	male	Japan, Okinawa, Onna-son, Kunigami-gun	
AnoJP47C03	2018.I.12	<i>Myrmecophilus albicinctus</i>	male	Japan, Okinawa, Onna-son, Kunigami-gun	
AnoJP47C04	2018.I.12	<i>Myrmecophilus albicinctus</i>	male	Japan, Okinawa, Onna-son, Kunigami-gun	
AnoJP48G01	2018.I.12	<i>Myrmecophilus albicinctus</i>	female	Japan, Okinawa, Onna-son, Kunigami-gun	
AnoJP49C01	2018.I.12	<i>Myrmecophilus albicinctus</i>	male	Japan, Okinawa, Onna-son, Kunigami-gun	
mpv-r4	2017.X.25	<i>Myrmecophilus dubius</i>	female	Malaysia, Penang, Botanical gardens	
mpv-r7	2017.XI.14	<i>Myrmecophilus dubius</i>	male	Malaysia, Penang, USM	
mpv-r8	2017.IV.25	<i>Myrmecophilus dubius</i>	male	Malaysia, Penang, Penang National Park	
mpv-r9	2017.IV.25	<i>Myrmecophilus dubius</i>	male	Malaysia, Penang, Penang National Park	
mpv-r10	2017.IV.25	<i>Myrmecophilus dubius</i>	male	Malaysia, Penang, Penang National Park	
mpv-r11	2017.IV.25	<i>Myrmecophilus dubius</i>	female	Malaysia, Penang, Penang National Park	
mpv-r12	2017.IV.25	<i>Myrmecophilus dubius</i>	female	Malaysia, Penang, Penang National Park	
mpv-r13	2017.IV.25	<i>Myrmecophilus dubius</i>	male	Malaysia, Penang, Penang National Park	
Cam01C01	2016.I.07	<i>Myrmophillellus pilipes</i>	male	Malaysia, Penang, Lebuh Relau	
Cam01C04	2016.I.07	<i>Myrmophillellus pilipes</i>	male	Malaysia, Penang, Lebuh Relau	
mun2-r1-3	2017.VI.14	<i>Myrmophillellus pilipes</i>	female	Malaysia, Penang, USM	
mun2-r3-2	2017.X.13	<i>Myrmophillellus pilipes</i>	male	Malaysia, Penang, USM	
mun2-r4-2	2017.X.13	<i>Myrmophillellus pilipes</i>	female	Malaysia, Penang, USM	

mun2-r4-3	2017.X.13	<i>Myrmophilellus pilipes</i>	female	Malaysia, Pengan, USM	
PT21	2017.XI.8	<i>Myrmecophilus americanus</i>	female	Malaysia, Penang, Lorong Kampung Melayu	
PT22	2017.XI.8	<i>Myrmecophilus americanus</i>	female	Malaysia, Penang, Lorong Kampung Melayu	
PT23	2017.XI.8	<i>Myrmecophilus americanus</i>	female	Malaysia, Penang, Lorong Kampung Melayu	
PT24	2017.XI.8	<i>Myrmecophilus americanus</i>	female	Malaysia, Penang, Lorong Kampung Melayu	
PT25	2017.XI.8	<i>Myrmecophilus americanus</i>	female	Malaysia, Penang, Lorong Kampung Melayu	
mam80-5	2017.XI.1	<i>Myrmecophilus americanus</i>	male	Malaysia, Pengan, Botanical gardens	
mam80-6	2017.XI.1	<i>Myrmecophilus americanus</i>	male	Malaysia, Pengan, Botanical gardens	
mam80-7	2017.XI.1	<i>Myrmecophilus americanus</i>	male	Malaysia, Pengan, Botanical gardens	
mam80-8	2017.XI.1	<i>Myrmecophilus americanus</i>	male	Malaysia, Pengan, Botanical gardens	
mam80-9	2017.XI.1	<i>Myrmecophilus americanus</i>	male	Malaysia, Pengan, Botanical gardens	
AgrJP18.2C1	2018.V.11	<i>Myrmecophilus quadrispina</i>	female	Japan, Okinawa, Ryukyu University	
AgrJP18.3C1	2018.V.11	<i>Myrmecophilus quadrispina</i>	female	Japan, Okinawa, Ryukyu University	
SH-maya	2004.I.24	<i>Myrmecophilus mayaealberti</i>	female	Seychelles	paratype
230-P1	2018	<i>Myrmecophilus hebaridi</i>	female	Taiwan, Pingtung, Hengchun	
230-P2	2018	<i>Myrmecophilus hebaridi</i>	female	Taiwan, Pingtung, Hengchun	
230-P3	2018	<i>Myrmecophilus hebaridi</i>	male	Taiwan, Pingtung, Hengchun	
KT214-G1	2018	<i>Myrmecophilus hebaridi</i>	male	Taiwan, Pingtung, Hengchun	
AgrJP18.3G	2018.V.11	<i>Myrmecophilus quadrispina</i>	male	Japan, Okinawa, Ryukyu University	
pIMY134-G1	2018.II.25-III.4	<i>Myrmecophilus americanus</i>	male	Malaysia, Pinang, Bayan Lepas,	
-	-	<i>Myrmecophilus dubius</i>	male	India, Kanara	<i>flavocinctus</i> holotype