

**Supplementary Table 1.** GenBank accession numbers of the genetic samples used in this study, including vouchers and localities.

Taxon	Tree ID	Voucher	Locality	GenBank No	Source
<i>A. adramitanus</i>	IBES10359_SAU	IBES 10359	Saudi Arabia, 20.7031 40.9892	KU097508.1	TAMAR et al. 2016
<i>A. adramitanus</i>	AO156_OMN	AO 156	Oman, 17.1163 54.5486	KU097507.1	TAMAR et al. 2016
<i>A. adramitanus</i>	MK182721_1_YEM	Unvouchered	Yemen	MK182721.1	TAMAR et al. 2019
<i>A. annectans</i>	CAS227508_SOM	CAS 227508	Somalia, 3 km N (by Bosasso Rd) of Karin, Lag	MG837516	WAGNER et al. 2018
<i>A. annectans</i>	MVZ242740_SOM	MVZ 242740	Somalia, Bari, 3 km N (by Bosasso Rd.) Karin	JX668129.1	LEACHÉ et al. 2014
<i>A. atricollis</i>	ZFMK41748_BWA	ZFMK 41748	Botswana, Gabane	GU133322.1	WAGNER et al. 2009
<i>A. atricollis</i>	MCZR190306_ZAF	MCZR 190306	South Africa, Limpopo, Upper Escarpment of Entabeni Game Reserve	MZ265206	this study
<i>A. atricollis</i>	MCZR190381_ZAF	MCZR 190381	South Africa, Limpopo, Boskroeg (Bush Camp)	MZ265205	this study
<i>A. atricollis</i>	ZFMK29397_ZAF	ZFMK 29397	South Africa, Durban	MG837492	WAGNER et al. 2018
<i>A. atricollis</i>	MVZ265804_MOZ	MVZ 265804	Mozambique, Maputo	JX668133.1	LEACHÉ et al. 2014
<i>A. atricollis</i>	ZFMK41918_MOZ	ZFMK 41918	Mozambique	MG837493	WAGNER et al. 2018
<i>A. atricollis</i>	ZFMK41917_MOZ	ZFMK 41917	Mozambique	MG837494	WAGNER et al. 2018
<i>A. branchi</i>	ELI322_COD	ELI322	DRC, Katanga, Manono	MG837495	WAGNER et al. 2018
<i>A. branchi</i>	ELI327_COD	ELI327	DRC, Katanga, Manono	MG837496	WAGNER et al. 2018
<i>A. branchi</i>	ZFMK88682_ZMB	ZFMK 88682	Zambia, Chipata	MG837503	WAGNER et al. 2018
<i>A. branchi</i>	ZFMK88683_ZMB	ZFMK 88683	Zambia, Lusaka	MG837502	WAGNER et al. 2018
<i>A. cyanocephalus</i>	HF235_ZMB	HF235	Zambia, Mwinilunga District, Ikelenge	MG837512	WAGNER et al. 2018
<i>A. cyanocephalus</i>	SN91_ZMB	SN91	Zambia, Mwinilunga District, Ikelenge	MG837513	WAGNER et al. 2018
<i>A. cyanocephalus</i>	SN92_ZMB	SN92	Zambia, Mwinilunga District, Ikelenge	MG837514	WAGNER et al. 2018
<i>A. cyanocephalus</i>	ZFMK88491_ZMB	ZFMK 88491	Zambia, Mwinilunga District, Ikelenge	MG837511	WAGNER et al. 2018
<i>A. cyanocephalus</i>	Z17_ZMB	Z17	Zambia, Kalumbila	MG837509	WAGNER et al. 2018
<i>A. cyanocephalus</i>	Z34_ZMB	Z34	Zambia, Kalumbila	MG837510	WAGNER et al. 2018
<i>A. cyanogaster</i>	MVZ257904_ETH	MVZ 257904	Ethiopia, Tigray, Mekelle	JX668135.1	LEACHÉ et al. 2014
<i>A. cyanogaster</i>	MVZ257928_ETH	MVZ 257928	Ethiopia, Tigray, Mekelle University, Arid Campus	JX668137.1	LEACHÉ et al. 2014
<i>A. cyanogaster</i>	MVZ257937_ETH	MVZ 257937	Ethiopia, Tigray, Mekelle University, Arid Campus	JX668138.1	LEACHÉ et al. 2014
<i>A. cyanogaster</i>	MVZ257938_ETH	MVZ 257938	Ethiopia, Tigray, Mekelle University, Arid Campus	JX668139.1	LEACHÉ et al. 2014
<i>A. cyanogaster</i>	MVZ257924_ETH	MVZ 257924	Ethiopia, Tigray, Mekelle Airport	JX668136.1	LEACHÉ et al. 2014
<i>A. gregorii</i>	PEMZAF18898_TZA	PEM 18898	Tanzania, Serengeti	MG837500	WAGNER et al. 2018
<i>A. gregorii</i>	PEMZAF18899_TZA	PEM 18899	Tanzania, Serengeti	MG837501	WAGNER et al. 2018
<i>A. gregorii</i>	ZFMK61662_RWA	ZFMK 61662	Rwanda, Nasho	JX668134.1	LEACHÉ et al. 2014
<i>A. gregorii</i>	ZFMK15866_ETH	ZFMK 15866	Ethiopia, Kamba	MG837499	WAGNER et al. 2018
<i>A. gregorii</i>	ZFMK41655_KEN	ZFMK 41655	Kenya, Masai Mara National Park	MG837497	WAGNER et al. 2018
<i>A. gregorii</i>	ZFMK61644_RWA	ZFMK 61644	Rwanda, Mpanga	MG837498	WAGNER et al. 2018
<i>A. kiwuensis</i>	ZFMK70546_UGA	ZFMK 70546	Uganda, Kampala	MG837488	WAGNER et al. 2018
<i>A. kiwuensis</i>	CAS201726_UGA	CAS 201726	Uganda, Rukungiri Dist., Byumba	GU128463.1	WAGNER et al. 2018
<i>A. kiwuensis</i>	CAS201727_UGA	CAS 201727	Uganda, Rukungiri Dist., Byumba	JX668130.1	LEACHÉ et al. 2014

Table 1 continued

Taxon	Tree ID	Voucher	Locality	GenBank No	Source
<i>A. kiwuensis</i>	UTEP20386_COD	UTEP 20386	DRC, North Kivu, road just N of Goma	MG837480	WAGNER et al. 2018
<i>A. kiwuensis</i>	UTEP20387_COD	UTEP 20387	DRC, North Kivu, Kabasha escarpment in Virunga National park	MG837481	WAGNER et al. 2018
<i>A. kiwuensis</i>	ZFMK88200_RWA	ZFMK 88200	Rwanda, Kibuye	MG837483	WAGNER et al. 2018
<i>A. kiwuensis</i>	UTEP20391_COD	UTEP 20391	DRC, South Kivu, Isale, ca. 100 m W of the shore of Lake Kivu	MG837482	WAGNER et al. 2018
<i>A. kiwuensis</i>	UTEP20390_COD	UTEP 20390	DRC, Orientale, Epulu (Ituri Forest)	MG837487	WAGNER et al. 2018
<i>A. kiwuensis</i>	UTEP20363_COD	UTEP 20363	DRC, North Kivu, Virguna National Park, Ndjuma lowland forest	MG837484	WAGNER et al. 2018
<i>A. kiwuensis</i>	UTEP20389_COD	UTEP 20389	DRC, Orientale, Bunia	MG837486	WAGNER et al. 2018
<i>A. kiwuensis</i>	UTEP20364_COD	UTEP 20364	DRC, North Kivu, Kisanzi village near Mt. Teye, Ruwenzori Mts.	MG837485	WAGNER et al. 2018
<i>A. kiwuensis</i>	UTEP20388_COD	UTEP 20388	DRC, North Kivu, Virguna National Park, Ndjuma lowland forest	JX668131.1	LEACHÉ et al. 2014
<i>A. margaritae</i>	INBAC_AMB11003_AGO_Huila	AMB 11003	Angola, Huila, Bicular National Park, Mutunto	MZ265215	BUTLER et al. 2019; this study
<i>A. margaritae</i>	MCZR190193_NAM_Ohangwena	MCZR 190193	Namibia, Ohangwena, near Ochikango, 200 m S of St Mary's Mission	MZ265209	this study
<i>A. margaritae</i>	MCZR190194_NAM_Ohangwena	MCZR 190194	Namibia, Ohangwena, near Ochikango, 200 m S of St Mary's Mission	MZ265210	this study
<i>A. margaritae</i>	CAS263908_AGO_Huila	CAS 263908	Angola, Huila, Bicular National Park, Camp headquarters	MZ265212	BUTLER et al. 2019; this study
<i>A. margaritae</i>	CAS263911_AGO_Huila	CAS 263911	Angola, Huila, Lubango, Kimbo do Soba	MZ265211	BUTLER et al. 2019; this study
<i>A. margaritae</i>	INBAC_AMB10667_AGO_Huila	AMB 10667	Angola, Huila, Bicular National Park, Camp headquarters	MZ265213	BUTLER et al. 2019; this study
<i>A. margaritae</i>	INBAC_AMB10987_AGO_Huila	AMB 10987	Angola, Huila, Bicular National Park, Mutunto	MZ265214	BUTLER et al. 2019; this study
<i>A. minutus</i>	MHNG2679_ETH	MHNG 2679	Ethiopia, Lake Langano	MG837489	WAGNER et al. 2018
<i>A. minutus</i>	PWKE04II182_KEN	PW_KE04.11_182	Kenya, Mt. Kulal	MG837490	WAGNER et al. 2018
<i>A. sp. COD</i>	EBG2167_COD	EBG 2167	DRC, South Kivu, ca. 4 km NE of Lulimba, 1194 m	JX668132.1	LEACHÉ et al. 2014
<i>A. sp. COD</i>	ELI005_COD	ELI005	DRC. Haut-Katanga, Marungu Highlands, Mwaseini	MG837491	WAGNER et al. 2018
<i>A. sp. Malanje</i>	CAS258430_AGO_Malanje	CAS 258430	Angola, Malanje, Cangandala National Park, park headquarters	MZ265208	this study
<i>A. sp. Malanje</i>	INBAC_JVV9153_AGO_Malanje	INBAC: JVV9153	Angola, Malanje, Cangandala National Park, park headquarters	MZ265207	this study
<i>A. ugandaensis</i>	JB41_TZA	JB41	Tanzania, Mount Meru	MG837504	WAGNER et al. 2018
<i>A. ugandaensis</i>	JB42_TZA	JB42	Tanzania, Mount Meru	MG837505	WAGNER et al. 2018
<i>A. ugandaensis</i>	PWKE04II287_UGA	PW_KE04.11_287	Uganda, Budongo	MG837506	WAGNER et al. 2018
<i>A. ugandaensis</i>	ZFMK81952_KEN	ZFMK 81952	Kenya, Kakamega Forest, Buyangu Village	MG837508	WAGNER et al. 2018
<i>A. ugandaensis</i>	ZFMK81963_KEN	ZFMK 81963	Kenya, Kakamega Forest, Buyangu Village	MG837507	WAGNER et al. 2018
<i>A. yemensis</i>	IBES10270_SAU	IBES 10270	Saudi Arabia, 18.2904 42.3605	KU097509.1	TAMAR et al. 2016
<i>A. yemensis</i>	MVZ236454_YEM	MVZ 236454	Yemen, Sana'a, Wadi Dhahr, 10 km NW	JX668140.1	LEACHÉ et al. 2014
<i>A. yemensis</i>	MVZ236455_YEM	MVZ 236455	Yemen, Sana'a, Wadi Dhahr, 10 km NW	JX668141.1	LEACHÉ et al. 2014

**Supplementary Table 2.** Uncorrected pairwise distances for within (diagonal) and between (under diagonal) *Acanthocercus* species with the 16S ribosomal RNA locus.

	<i>margaritae</i>	<i>cyanocephalus</i>	<i>atricollis</i>	sp_Malanje	sp_COD	<i>branchi</i>	<i>gregorii</i>	<i>gregorii</i> TZ	<i>ugandaensis</i>	<i>kiwuensis</i>	<i>minutus</i>	<i>annectans</i>	<i>cyanogaster</i>	<i>yemensis</i>	<i>adramitanus</i>
<i>margaritae</i>	0														
<i>cyanocephalus</i>	0,0401	0													
<i>atricollis</i>	0,0366	0,0273	0,0044												
sp_Malanje	0,0417	0,0324	0,0412	0,0031											
sp_COD	0,0386	0,0231	0,0227	0,0370	0,0031										
<i>branchi</i>	0,0556	0,0370	0,0397	0,0478	0,0417	0,0123									
<i>gregorii</i>	0,0401	0,0247	0,0212	0,0386	0,0293	0,0185	0								
<i>gregorii</i> TZ	0,0525	0,0370	0,0326	0,0448	0,0386	0,0278	0,0185	0							
<i>ugandaensis</i>	0,0568	0,0389	0,0440	0,0590	0,0497	0,0358	0,0228	0,0358	0,0019						
<i>kiwuensis</i>	0,0484	0,0394	0,0445	0,0471	0,0502	0,0424	0,0332	0,0368	0,0412	0,0053					
<i>minutus</i>	0,0617	0,0432	0,0459	0,0633	0,0509	0,0540	0,0432	0,0540	0,0543	0,0561	0,0185				
<i>annectans</i>	0,1080	0,0957	0,1027	0,1096	0,1034	0,1019	0,0926	0,0926	0,0988	0,0972	0,1034	0			
<i>cyanogaster</i>	0,1019	0,0895	0,0924	0,1034	0,0941	0,0849	0,0864	0,0957	0,0914	0,0908	0,1080	0,0914	0,0049		
<i>yemensis</i>	0,1296	0,1173	0,1151	0,1260	0,1260	0,1183	0,1060	0,1049	0,1082	0,1216	0,1178	0,1132	0,1302	0,0370	
<i>adramitanus</i>	0,1348	0,1163	0,1202	0,1312	0,1281	0,1168	0,1091	0,1008	0,1099	0,1119	0,1260	0,1224	0,1241	0,0545	0,0206