

Table S1: List of specimens used for the phylogenetic analysis of Keroplatidae (Diptera) with GenBank accession numbers

Species	Voucher	12S	16S	18S	28S	CAD	COI	cytB	MCS	Geographic origin
<i>Afrokeroplatus ashleyi</i> Ševčík, Mantič, Blagoderov, 2015	K44	MT446516	MT446593	MT446732	MT446823	n/a	MT446917	n/a	MT535446	Republic of South Africa
<i>Amerikeroplatus dimorphicus</i> Fitzgerald, 2019	K107	n/a	MT446623	MT446762	MT446857	n/a	MT446946	MT447026	MT535437	Guatemala
<i>Angazidzia insolita</i> (Matile, 1972)	K32	MT446511	n/a	MT446727	MT446817	n/a	n/a	n/a	n/a	Republic of South Africa
<i>Antlemon</i> (A.) <i>halidayi</i> (Loew, 1871)	K5	MT446489	MT446566	MT446705	MT446794	MT446642	MT446892	MT446974	MT535457	Spain (Mallorca)
<i>Antlemon</i> (<i>Antlemonopsis</i>) <i>brevimanum</i> (Loew, 1871)	K6	MT446490	MT446567	MT446706	MT446795	MT446643	MT446893	MT446975	MT535458	Slovakia
<i>Arachnocampa</i> (A. s. str.) <i>luminosa</i> (Skuse, 1891)	aralum		MT446557	MT446691	MT446775	MT446633	MT446877	MT446959	MT535401	New Zealand
	K104a	MT446546								New Zealand
<i>Arachnocampa</i> (C.) <i>flava</i> Harrison, 1966	arafla	NC_016204	NC_016204	KC177277	KC177644	KC_178393	NC_016204	NC_016204	n/a	Australia
<i>Asindulum montanum</i> Roder, 1887	K47	MT446517	MT446594	MT446733	MT446824	MT446660	MT446918	MT447000	MT535466	USA
<i>Asiokeroplatus tiger</i> Ševčík, Mantič, Blagoderov, 2015	K34	MT446512	MT446588	n/a	MT446818	n/a	n/a	n/a	n/a	Thailand
<i>Asiorrhina parasiatica</i> Blagoderov, Hippa, Ševčík, 2009	B4	KP288675	KP288709	KP288744	MT446776	KX453715	KT316832	MT446960	MT535455	Thailand
<i>Bibio marci</i> (Linnaeus, 1758)	bibmar						KT316846			Unknown (from GenBank)
	OUT1	KJ136689	KJ136724	KP288758	MT446865	KX453730		GATJ00000000.2	MH114581	Czech Republic
<i>Blagorrhina</i> sp. (undescribed species)	OUT20	KP288694	KP288726	KP288772	MT446868	KX453739	KT316862	MT447034	MT535454	Malaysia
<i>Bolitophila cinerea</i> Meigen, 1818	bolcin			MT446695	MT446780	MT446636	MT446881	MT446964	MH114583	Czech Republic
	B1	KJ136677	KJ136712							Slovakia
<i>Bolitophila hybrida</i> (Meigen, 1804)	bolhyb	MT446482	MT446560	MT446696	MT446781	MT446637		MT446965	MT535471	Czech Republic
	BN3						MT446882			Czech Republic
<i>Catotricha subobsoleta</i> (Alexander, 1924)	catsub			MT446697	MT446782		MT446883	MH114511	MH114582	USA
	OUT42	KP288706	MG554124			KX453747				USA
<i>Cerotelion racovitza</i> Matile & Burghele-Balacesco, 1969	K2	MT446486	MT446563	MT446702	MT446791	MT446640	MT446889	MT446971	MT535443	Slovakia
<i>Cerotelion striatum</i> (Gmelin, 1790)	K2b	MT446487	MT446564	MT446703	MT446792	n/a	MT446890	MT446972	MT535444	Czech Republic
<i>Chetoneura cavernae</i> Colless, 1962	K9	MT446494	MT446571	MT446710	MT446799	n/a	MT446897	MT446979	MT535414	Brunei
<i>Chetoneura</i> sp. (undescribed species)	K59	MT446523	MT446599	n/a	MT446831	n/a	MT446924	n/a	MT535447	Brunei
<i>Chiasmoneura anthracina</i> Meijere, 1913	B6	KJ136682	KJ136717	KP288745	MT446777	n/a	KT316833	MT446961	MT535442	Thailand
<i>Ctenoceridion freemani</i> Matile, 1972	K39b	MT446514	MT446590	MT446729	MT446820	MT446657	MT446915	MT446998	MT535423	Madagascar
<i>Ctenoceridion</i> sp. (undescribed species)	K56	MT446522	MT446598	MT446738	MT446830	MT446663	MT446923	MT447004	MT535429	Madagascar
<i>Diadocidia ferruginosa</i> (Meigen, 1830)	diafer				MT446785		MT446885	MT446968		Czech Republic
	SJ1	KC435526	KC435562	KP288786		KX453752			MH114576	Czech Republic
<i>Diadocidia globosa</i> Papp & Ševčík, 2005	SJ9c	KP288708	KP288740	KP288789	MT446874	KX453755	KT316878	MT447039	MT535470	Thailand
<i>Ditomyia fasciata</i> (Meigen, 1818)	ditfas			MT446699	MT446786		MT446886		MH114585	Czech Republic
	SJ3	KJ136698	KJ136734			KX453753		MH114518		Czech Republic
<i>Euceroplatus</i> sp. 1 (undescribed species)	BA24	MT446481	MT446558	MT446693	MT446778	MT446635	MT446879	MT446963	MT535411	Thailand
<i>Euceroplatus</i> sp. 2 (undescribed species)	K26	MT446506	MT446583	MT446722	MT446812	MT446653	MT446909	MT446992	MT535421	Brunei
genus near <i>Burmacrocera</i> sp. 1 (undescribed species)	K8	MT446492	MT446569	MT446708	MT446797	MT446645	MT446895	MT446977	MT535459	Brunei
genus near <i>Burmacrocera</i> sp. 2 (undescribed species)	K8e	MT446493	MT446570	MT446709	MT446798	MT446646	MT446896	MT446978	MT535463	Taiwan
genus near <i>Robsonomyia</i> (undescribed species)	K106	n/a	n/a	MT446761	MT446856	n/a	n/a	n/a	MT535452	USA
<i>Gnoriste bilineata</i> Zetterstedt, 1852	GS4	KP288679	KP288713	KP288752	MT446787	KX453720	KT316839	KT923597	MH114535	Czech Republic
<i>Heteropeza pygmaea</i> Winnertz, 1846	hepyg	MG684450	MT446561	MT446700	MT446788	MT446638	MT446887	MT446969	MT535402	Slovakia
<i>Heteropterna perdincta</i> Matile, 1990	K66	MT446528	MT446604	MT446743	MT446837	MT446667	n/a	MT447009	MT535431	French Guyana
<i>Heteropterna</i> sp. (undescribed species)	K55	MT446521	MT446597	MT446737	MT446829	n/a	MT446922	MT447003	MT535428	Madagascar
<i>Heterotricha takkae</i> Chandler, 2002	hettak	MG684499	MG684543	MH114228	MT446789	MH114336	MH114452	MH114510	MH114584	Greece
<i>Isoneuromyia pseudochracea</i> (Landrock, 1925)	K41	MG049746	MT446591	MT446730	MT446821	MT446658	MG049753	MG049759	MT535424	Slovakia
<i>Isoneuromyia semirufa</i> (Meigen, 1818)	K84	MG049748	MT446615	MT446754	MT446849	MT446676	MG049754	MG049761	n/a	Czech Republic
<i>Keroplatus testaceus</i> (Dalman, 1818)	kertes			MT446763	MT446858	MT446680	MT446947	MT447027	MT535403	Czech Republic
	B7	KJ136683	KJ136718							Slovakia

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<i>Keroplatus tipuloides</i> (Bosc, 1792)	K1	MT446485	MT446562	MT446701	MT446790	MT446639	MT446888	MT446970	MT535412	Slovakia
<i>Kibaleana apicospinosa</i> Kurina, Mantič & Ševčík, 2017	K60	MT446524	MT446600	MT446739	MT446832	n/a	MT446925	MT447005	MT535430	Uganda
<i>Laurypta leptura</i> (Edwards, 1928)	K14	MT446497	MT446574	MT446713	MT446803	MT446649	MT446900	MT446983	MT535416	Brunei
<i>Lestremia cinerea</i> Macquart, 1826	lescin				MT446859	n/a			MT535404	Slovakia
	OUT6	KJ136693	KJ136728	KP288761			KT316850	MT447032		Slovakia
<i>Lygistorrhina</i> (L. s. str.) sp. (undescribed species)	K70	MT446532	MT446608	MT446747	MT446841	MT446670	MT446932	MT447013	MT535449	Brunei
<i>Lygistorrhina</i> (P.) <i>cerqueirai</i> Lane, 1958	K61	KX453690	KX453697	KX453703	MT446833	KX453724	KX453759	MH114487	MH114565	French Guyana
<i>Lygistorrhina</i> (P.) <i>sanctaecatherinae</i> Thompson, 1975	lygsan		MT446624	MT446764	MT446860	MT446681	MT446948	MT447028	MT535405	USA
	K105	MT446547								USA
<i>Lyprauta</i> sp. (undescribed species)	K64	MT446526	MT446602	MT446741	MT446835	MT446665	MT446927	MT447007	MT535467	French Guyana
<i>Macrocera centralis</i> Meigen, 1818	K10	KP288682	KP288716	KP288755	MT446800	KX453723	KT316841	MT446980	MT535464	Slovakia
<i>Macrocera vittata</i> Meigen, 1830	macvit	MT446548	MT446625	MT446765	MT446861	MT446682	MT446949	MT447029	MT535453	Czech Republic
<i>Macrorrhyncha collarti</i> (Tollet, 1955)	K73	MT446533	MT446609	MT446748	MT446842	MT446671	MT446933	MT447014	n/a	Slovakia
<i>Macrorrhyncha flava</i> Winnertz, 1846	K7	MT446491	MT446568	MT446707	MT446796	MT446644	MT446894	MT446976	MT535462	Slovakia
<i>Manota unifurcata</i> Lundstrom, 1913	manuni			MT446766	MT446862	MT446683	MT446950	MT447030	n/a	Czech Republic
	S8	KC435542	KC435578							Slovakia
<i>Matileola</i> sp. (undescribed species)	K97	MT446543	MT446620	MT446758	MT446853	MT446678	MT446943	MT447023	n/a	Taiwan
<i>Micrapemon</i> sp. (undescribed species)	K15b	MT446498	MT446575	MT446714	MT446804	n/a	MT446901	MT446984	MT535417	French Guyana
<i>Microkeroplatus minutus</i> Ševčík & Papp, 2011	K16	MT446499	MT446576	MT446715	MT446805	n/a	MT446902	MT446985	MT535418	Brunei
<i>Monocentrota lundstroemi</i> Edwards, 1925	K11	MT446495	MT446572	MT446711	MT446801	MT446647	MT446898	MT446981	MT535415	Slovakia
<i>Monocentrota matilei</i> Bechev, 1989	K69	MT446531	MT446607	MT446746	MT446840	MT446669	MT446931	MT447012	MT535448	Slovakia
<i>Neoceroplatus</i> sp. (undescribed species)	K62	MT446525	MT446601	MT446740	MT446834	MT446664	MT446926	MT447006	n/a	French Guyana
<i>Neoplatyura nigricauda</i> (Strobl, 1893)	K12	MT446496	MT446573	MT446712	MT446802	MT446648	MT446899	MT446982	n/a	Slovakia
<i>Neoplatyura noorae</i> Salmela, 2014	K77	MT446536	MT446612	MT446751	MT446845	MT446674	MT446936	MT447017	MT535433	Finland
<i>Nepaetricha furcata</i> Hippha, Chandler & Papp, 2009	OUT10c	KP288685	KP288718	KP288764	n/a	KX453733			n/a	Thailand
	OUT10e						MT446953	MT447033		Thailand
<i>Nepaetricha</i> sp. (undescribed species)	nepsp	MT446549				n/a		MT447031		Thailand
	BA25a		MT446559	MT446694	MT446779		MT446880		MT535460	Thailand
<i>Nervijuncta</i> sp. (undescribed species)	D11	MT446484	n/a	MT446698	MT446784	n/a	MT446884	MT446967	n/a	New Zealand
<i>Orfelia fasciata</i> (Meigen, 1804)	K37	MT446513	MT446589	MT446728	MT446819	MT446656	MT446914	MT446997	n/a	Slovakia
<i>Orfelia nemoralis</i> (Meigen, 1818)	orfnem			MT446768	MT446864	n/a	MT446952	n/a	MT535406	Slovakia
	K3	KP288681	KP288715							Czech Republic
<i>Paleoplatyura johnsoni</i> Johannsen, 1910	pajo	MT446551	MT446627	MT446769			MT446954	MT447035	MT535407	Italy
	K80				MT446846	MT446675				Italy
<i>Paleoplatyura melanderi</i> Fisher, 1941	K51	MT446520	MT446596	MT446736	MT446827	MT446662	MT446921	n/a	MT535427	USA
<i>Placoceratias</i> sp. (undescribed species)	K27	MT446507	MT446584	MT446723	MT446813	MT446654	MT446910	MT446993	n/a	Peru
<i>Platyceridion</i> sp. (undescribed species)	K81a	MT446537	MT446613	MT446752	MT446847	n/a	MT446937	MT447018	MT535434	China
<i>Platyroptilon</i> sp. 1 (undescribed species)	K18	MT446500	MT446577	MT446716	MT446806	MT446650	MT446903	MT446986	MT535419	Thailand
<i>Platyroptilon</i> sp. 2 (undescribed species)	K67	MT446529	MT446605	MT446744	MT446838	n/a	MT446929	MT447010	MT535469	French Guyana
<i>Platyura marginata</i> Meigen, 1804	K4	MT446488	MT446565	MT446704	MT446793	MT446641	MT446891	MT446973	MT535413	Slovakia
<i>Platyura pectoralis</i> Coquillett, 1895	K48	MT446518	MT446595	MT446734	MT446825	MT446661	MT446919	MT447001	MT535426	USA
<i>Porricondyla nigripennis</i> (Meigen, 1830)	OUT16	KP288690	KP288722	KP288768	MT446867	KX453736	KT316859	n/a	n/a	Slovakia
<i>Proceroplatus</i> sp. 1 (undescribed species)	K25	MT446505	MT446582	MT446721	MT446811	n/a	MT446908	MT446991	n/a	Brunei
<i>Proceroplatus</i> sp. 2 (undescribed species)	K83	MT446538	MT446614	MT446753	MT446848	n/a	MT446938	MT447019	n/a	China
<i>Pyratula subcanariae</i> Chandler & Blasco-Zumeta, 2001	K74	MT446534	MT446610	MT446749	MT446843	MT446672	MT446934	MT447015	MT535450	Finland
<i>Pyratula zonata</i> (Zetterstedt, 1855)	K30	MT446509	MT446586	MT446725	MT446815	MT446655	MT446912	MT446995	MT535445	Czech Republic
<i>Pyrtaula</i> sp. (undescribed species)	K92	MT446540	MT446617	MT446756	MT446851	MT446677	MT446940	MT447020	MT535436	New Zealand
<i>Ralytupa pendleburyi</i> (Edwards, 1928)	K19	MT446501	MT446578	MT446717	MT446807	n/a	MT446904	MT446987	n/a	Brunei
<i>Ralytupa</i> sp. (undescribed species)	K31	MT446510	MT446587	MT446726	MT446816	n/a	MT446913	MT446996	n/a	Democratic Republic of Congo
genus near <i>Robsonomyia</i> sp. (undescribed species)	K53	KP288683	n/a	KP288756	MT446828	n/a	KT316842	n/a	n/a	USA

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<i>Rocetelion humerale</i> (Zetterstedt, 1850)	K68	MT446530	MT446606	MT446745	MT446839	MT446668	MT446930	MT447011	MT535432	Slovakia
<i>Rutylapa ruficornis</i> (Zetterstedt, 1851)	B8	KJ136684	KJ136719	MT446692	n/a	MT446634	MT446878	MT446962	n/a	Turkey
<i>Schizocyttara turneri</i> Matile, 1974	K43	MT446515	MT446592	MT446731	MT446822	MT446659	MT446916	MT446999	MT535425	South Africa
<i>Schwenckfeldina carbonaria</i> (Meigen, 1830)	SCI12	MT446552	MG554120	MG554133	MT446870	MT446686	MG554164	MT447036	MT535439	Slovakia
<i>Sciara hemerobioides</i> (Scopoli, 1763)	scihem	MT446553	MT446628	MT446770	MT446871	MT446687	MT446955	MT447037	MT535408	Slovakia
<i>Sciarokeroplatus pileatus</i> Papp & Ševčík, 2005	scipil			MT446771	MT446872	MT446688			MT535409	Taiwan
	K96	MT446542	MT446619				MT446942	MT447022		Taiwan
<i>Sciarosoma nigriclava</i> (Strobl, 1898)	OUT13b	KP288688	KP288720	KP288766	MT446866	MT446685	KT316857	n/a	MT535438	Finland
<i>Sciophila rufa</i> Meigen, 1830	sciruf	MT446554	MT446629	MT446772	MT446873	MT446689	MT446956	MT447038	MT535410	Czech Republic
<i>Setostylus</i> sp. 1 (undescribed species)	K20c	MT446502	MT446579	MT446718	MT446808	MT446651	MT446905	MT446988	MT535420	Brunei
<i>Setostylus</i> sp. 2 (undescribed species)	TW36	MT446556	MT446632	MT446774	MT446876	n/a	MT446958	MT447041	MT535441	Taiwan
<i>Symmerus annulatus</i> (Meigen, 1830)	D2	MT446483	KX453696	FJ171934	MT446783	KC177112	KX453757	MT446966	MT535461	Slovakia
<i>Taulyrpa</i> sp. (undescribed species)	K65	MT446527	MT446603	MT446742	MT446836	MT446666	MT446928	MT447008	MT535468	French Guyana
<i>Taxicnemis hirta</i> (Marshall, 1896)	NZ1	MT446550	MT446626	MT446767	MT446863	MT446684	MT446951	n/a	MT535456	New Zealand
<i>Tergostylus</i> sp. (undescribed species)	K90	MT446539	MT446616	MT446755	MT446850	n/a	MT446939	n/a	MT535435	Madagascar
<i>Tolletia vrydaghi</i> (Tollet, 1955)	K94	MT446541	MT446618	MT446757	MT446852	n/a	MT446941	MT447021	n/a	Democratic Republic of Congo
<i>Truplaya</i> (<i>Truplaya</i>) sp. 1 (undescribed species)	K98	MT446544	MT446621	MT446759	MT446854	MT446679	MT446944	MT447024	MT535451	Brunei
<i>Truplaya</i> (<i>Truplayella</i>) sp. 2 (undescribed species)	K101	MT446545	MT446622	MT446760	MT446855	n/a	MT446945	MT447025	n/a	Cameroon
<i>Urytalpa macrocera</i> (Edwards, 1913)	K49	MT446519	MT472694	MT446735	MT446826	n/a	MT446920	MT447002	n/a	Czech Republic
<i>Urytalpa trivittata</i> (Lundstrom, 1914)	K76	MT446535	MT446611	MT446750	MT446844	MT446673	MT446935	MT447016	n/a	Finland
<i>Xenokeroplatus</i> sp. 1 (undescribed species)	K21	MT446503	MT446580	MT446719	MT446809	n/a	MT446906	MT446989	MT535465	Thailand
<i>Xenokeroplatus</i> sp. 2 (undescribed species)	TW33	MT446555	MT446630	MT446773	MT446875	MT446690	MT446957	MT447040	MT535440	Taiwan
<i>Xenoplatyura</i> sp. 1 (undescribed species)	K22	MT446504	MT446581	MT446720	MT446810	MT446652	MT446907	MT446990	n/a	Thailand
<i>Xenoplatyura</i> sp. 2 (undescribed species)	K28	MT446508	MT446585	MT446724	MT446814	n/a	MT446911	MT446994	MT535422	Brunei
<i>Zygoneura sciarina</i> Meigen, 1830	OUT33	KP288700	KP288732	KP288777	MT446869	KX453742	KT316867	MH114507	MH114573	Slovakia

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Table S2 – Primers for PCR amplification and sequencing of the mitochondrial and nuclear gene markers used in this study

Gene region	Primer name	Direct ion	Primer sequences (5'→3')	Source
12S	12Sma	F	CTGGGATTAGATACCCTGTTAT	[1]
	12Smb	R	CAGAGAGTGACGGGCGATTTGT	
	SR-J-14199	F	TACTATGTTACGACTTAT	[2]
	MZ-12S-R	R	GCCAGCATTTCGCGTTATAC	Žurovcová lab
16S	dipt-16S-F	F	TAATCCAACATCGAGGTC	[3]
	dipt-16S-R	R	CGAAGGTAGCATAATCAGTAG	
18S	18SF	F	AACCTGGTTGATCCTGCCAGT	[4]
	18S-3-seq	R	GGTTAGAACTAGGGCGGTATCT	[5]
28S	dipt-28S-F	F	AGAGAGAGAGTTCAAGAGTACGTG	[6]
	dipt-28S-R	R	TAGTTCACCATCTTTCGGGTC	[7]
	28S-A2	F	GCTTAGGACCGACTAACTCG	Ševčík lab
	28S-R2	R	GGTTACGGAATTGGAACCG	
CAD	CAD-1057-F	F	ACNGAYTAYGAYATGTGYGA	[8]
	CAD-1278-R	R	TCRTTNTTYTTWGCRTYAAYTGCAT	
COI	LCO1490	F	GGTCAACAAATCATAAAGATATTGG	[9]
	HCO2198	R	TAAACTTCAGGGTGACCAAAAAATCA	
cytB	dipt-cytB-F	F	TATGTTTTATGAGGACAAATATC	[10]
	mycet_cytB-R	R	ATTACTCCCCCTAATTTATTAGGAAT	[11]
MCS	mMCS-1715	F	AAATATGATCGNGARTGGATGA	
	MCS1-R2b	R	TGGTCAATRCAAATCATTTGACA	

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Table S2 – Primers for PCR amplification and sequencing of the mitochondrial and nuclear gene markers used in this study

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Figure S1: Bayesian hypothesis for relationships among selected taxa of Keroplatidae based on DNA sequence data (12S, 16S, 18S, 28S, CAD, COI, cytB, and MCS).

