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SUPPORTING INFORMATION

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The combined role of dispersal and niche evolution in the diversification of Neotropical

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1 SUPPORTING TABLES

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3 **Table S1. Details of the samples used for molecular data collecting, with locality data for sequenced samples, identification number,**
4 **longitude and latitude.** * Outgroup; Abbreviation of states: Amapá (AP), Amazonas (AM), Bahia (BA), Maranhão (MA), Mato Grosso
5 (MT), Mato Grosso do Sul (MS), Minas Gerais (MG), Pará (PA), Paraíba (PB), Piauí (PI), Rio Grande do Norte (RN), Rondônia (RO),
6 Roraima (RR) and Tocantins (TO).

Taxon	Locality	ID Number	Longitude	Latitude
<i>A. ameiva</i> *	Reserva da Campina, AM	FPWerneck00343	-59.7002794	-2.6986264
<i>K. altamazonica</i>	Alta Floresta D'Oeste, RO	CHUNB52867	-60.277528	-12.121981
<i>K. altamazonica</i>	Cerejeiras, RO	CHUNB50640	-60.8122	-13.1889
<i>K. altamazonica</i>	Cerejeiras, RO	CHUNB50641	-60.8122	-13.1889
<i>K. altamazonica</i>	Guajará-Mirim, RO	CHUNB22287	-60.938331	-11.862561
<i>K. altamazonica</i>	Humaitá, AM	CHUNB32326	-64.041244	-8.814814
<i>K. altamazonica</i>	Humaitá, AM	CHUNB32328	-64.041244	-8.814814
<i>K. altamazonica</i>	Pimenta Bueno, RO	CHUNB18166	-62.196175	-12.011539
<i>K. altamazonica</i>	Pimenta Bueno, RO	CHUNB18167	-62.196175	-12.011539
<i>K. altamazonica</i>	Vilhena, RO	CHUNB09822	-60.275	-12.0205555
<i>K. altamazonica</i>	Vilhena, RO	CHUNB09823	-60.275	-12.0205555
<i>K. altamazonica</i>	Porto Velho, RO	HJ0104	-64.900006	-11.400117
<i>K. altamazonica</i>	Porto Velho, RO	HJ0396	-64.900006	-11.400117
<i>K. altamazonica</i>	Kuribrang Camp, Guyana	BPN2559	-59.533194	5.396639
<i>K. altamazonica</i>	Kuribrang Camp, Guyana	BPN2561	-59.533194	5.396639
<i>K. borckiana</i>	Demerara-Mahaica, Guyana	PK3936	-58.09820	6.5464260
<i>K. calcarata</i>	Alta Floresta, MT	CHUNB47026	-55.917445	-6.2222
<i>K. calcarata</i>	Alta Floresta, MT	CHUNB47028	-55.917445	-6.800000

<i>K. calcarata</i>	Amapá, AP	CHUNB14095	-50.790564	-6.800000
<i>K. calcarata</i>	Carolina, MA	CHUNB51969	-47.261630	-12.770000
<i>K. calcarata</i>	Carolina, MA	CHUNB51970	-47.261630	-12.770000
<i>K. calcarata</i>	Caseara, TO	CHUNB44969	-49.883917	-9.36986388
<i>K. calcarata</i>	Caseara, TO	CHUNB44970	-49.883917	-9.36986388
<i>K. calcarata</i>	Guajará-Mirim, RO	CHUNB22245	-64.900006	-10.309439
<i>K. calcarata</i>	Guajará-Mirim, RO	CHUNB22284	-64.900006	-10.309439
<i>K. calcarata</i>	Jacareacanga, PA	CHUNB56838	-57.7528	-10.309439
<i>K. calcarata</i>	Novo Progresso, PA	CHUNB39982	-54.9133138	-15.188121
<i>K. calcarata</i>	Novo Progresso, PA	CHUNB39983	-54.9133138	-8.833333
<i>K. calcarata</i>	Palmas, TO	CHUNB11296	-48.345922	-8.833333
<i>K. calcarata</i>	Palmas, TO	CHUNB12360	-48.345922	-9.750000
<i>K. calcarata</i>	Palmas, TO	CHUNB16958	-48.345922	-9.750000
<i>K. calcarata</i>	Ribeirão Cascalheira, MT	CHUNB68375	-51.820000	-14.800000
<i>K. calcarata</i>	Ribeirão Cascalheira, MT	CHUNB68376	-51.820000	-15.116667
<i>K. calcarata</i>	Vilhena, RO	CHUNB09819	-60.277528	-6.465278
<i>K. calcarata</i>	Vilhena, RO	CHUNB09838	-60.277528	-6.3258333
<i>K. calcarata</i>	Guaraí, TO	MTR7478	-48.516667	-7.229730
<i>K. calcarata</i>	Guaraí, TO	MTR7577	-48.516667	-7.771389
<i>K. calcarata</i>	UHE Lajeado, TO	LAJ278	-48.350000	-6.589167
<i>K. calcarata</i>	UHE Lajeado, TO	LAJ478	-48.350000	-10.300000
<i>K. calcarata</i>	UHE Guaporé, MT	RGL1217	-58.966667	-7.216667
<i>K. calcarata</i>	Canaã dos Carajás, PA	110	-50.077222	-7.216667
<i>K. calcarata</i>	Cachoeira das Pombas, AM	MTR10242	-60.3463889	-9.600000
<i>K. calcarata</i>	Cachoeira das Pombas, AM	MTR10229	-60.3463889	-9.600000
<i>K. calcarata</i>	Carolina, MA	ESTR00359	-47.261630	-9.538739
<i>K. calcarata</i>	Palmeiras do Tocantins, TO	ESTR01290	-48.317778	-9.633333
<i>K. calcarata</i>	Estreito, MA	ESTR01956	-47.460000	0.983333
<i>K. calcarata</i>	Montenegro, RO	UNIBAN1829	-63.200000	-10.250833
<i>K. calcarata</i>	Babaçulândia, TO	MTR7695	-47.766667	-9.566667

<i>K. calcarata</i>	Babaçulândia, TO	MTR7699	-47.766667	-9.566667
<i>K. calcarata</i>	Porto Velho, RO	HJ0185	-64.500000	-13.350000
<i>K. calcarata</i>	Porto Velho, RO	HJ0197	-64.500000	-13.350000
<i>K. calcarata</i>	Abunã, RO	HJ0475	-65.334350	-14.800000
<i>K. calcarata</i>	Mutum, RO	HJ0592	-64.950000	-10.016667
<i>K. calcarata</i>	Serra do Navio, AP	926211	-50.050000	-10.016667
<i>K. calcarata</i>	Aripuanã, MT	967950	-59.549167	-15.116667
<i>K. calcarata</i>	Aripuanã, MT	LG1175	-59.549167	3.206167
<i>K. calcarata</i>	Apiacás, MT	968391	-57.383333	3.206167
<i>K. calcarata</i>	Apiacás, MT	968392	-57.383333	-17.108700
<i>K. calcarata</i>	Gaúcha do Norte, MT	976540	-53.433333	-17.108700
<i>K. calcarata</i>	Gaúcha do Norte, MT	976539	-53.433333	-17.108700
<i>K. calcarata</i>	Vila Rica, MT	978224	-51.233333	-9.578084
<i>K. calcarata</i>	Vila Rica, MT	978225	-51.233333	-9.578084
<i>K. calcarata</i>	UHE Guaporé, MT	LG2114	-58.966667	2.035456
<i>K. calcarata</i>	Takutu-Upper Essequibo, Guyana	AMS312	-59.405533	-7.229730
<i>K. calcarata</i>	Takutu-Upper Essequibo, Guyana	AMS355	-59.405533	-7.229730
<i>K. calcarata</i>	Patawa, French Guyana	BPN1526	-52.452030	4.548170
<i>K. calcarata</i>	Patawa, French Guyana	BPN1567	-52.452030	4.548170
<i>K. calcarata</i>	Suriname	BPN2519	-59.533520	5.396670
<i>K. calcarata</i>	Suriname	BPN2828	-55.629410	2.477000
<i>K. calcarata</i>	Suriname	BPN2831	-55.629410	2.477000
<i>K. calcarata</i>	Suriname	BPN2885	-55.630210	2.466490
<i>K. calcarata</i>	Potaro-Siparuni, Guyana	BPN3386	-58.921602	4.413793
<i>K. calcarata</i>	Potaro-Siparuni, Guyana	BPN3616	-58.921602	4.413793
<i>K. calcarata</i>	Potaro-Siparuni, Guyana	BPN3796	-59.643278	5.001869
<i>K. calcarata</i>	Potaro-Siparuni, Guyana	BPN3825	-59.643278	5.001869
<i>K. calcarata</i>	Potaro-Siparuni, Guyana	TJC1125	-59.516070	5.275050
<i>K. calcarata</i>	Potaro-Siparuni, Guyana	TJC1127	-59.516070	5.275050
<i>K. calcarata</i>	Potaro-Siparuni, Guyana	PK3686	-58.728611	-4.731944

<i>K. calcarata</i>	Potaro-Siparuni, Guyana	PK3809	-58.783333	-4.412778
<i>K. calcarata</i>	Potaro-Siparuni, Guyana	PK3843	-58.712778	-4.732778
<i>K. calcarata</i>	Potaro-Siparuni, Guyana	PK3920	-59.026111	-4.746944
<i>K. calcarata</i>	São José do Jabote, AM	HT4407	-65.21484	-2.163792
<i>K. calcarata</i>	São João do Lago da Velha, AM	HT4409	-65.21484	-2.163792
<i>K. calcarata</i>	Caracará, RR	Viruí 543	-61.13463	1.815873
<i>K. calcarata</i>	São José do Jabote, Urucará, AM	CTGA048	-58.20637	-2.442202
<i>K. calcarata</i>	Reserva da Campina, AM	FPW00344	-59.7002794	-2.698626
<i>K. calcarata</i>	Tailândia, PA	1999	-51.20728	-0.516350
<i>K. calcarata</i>	Tailândia, PA	2006	-51.20728	-0.516350
<i>K. calcarata</i>	Tailândia, PA	2124	-51.20728	-0.516350
<i>K. calcarata</i>	São Sebastião, AM	MTR12870	-58.95898	-1.916757
<i>K. calcarata</i>	Igarapé Tarumã-Açu, AM	MTR12906	-58.95898	-2.980756
<i>K. calcarata</i>	São Sebastião, AM	MTR12919	-58.95898	-1.916757
<i>K. calcarata</i>	Pacamiri, AM	MTR13148	-58.22055	-4.596944
<i>K. calcarata</i>	Palhalzinho, AM	MTR13243	-57.46547	-4.481279
<i>K. calcarata</i> _AF	Mamanguape, PB	CHUNB56723	-35.200000	-12.940000
<i>K. calcarata</i> _AF	Mamanguape, PB	CHUNB56722	-35.200000	-12.940000
<i>K. calcarata</i> _AF	Maragogipe, BA	CHUNB69226	-38.910000	-12.121981
<i>K. calcarata</i> _AF	Maragogipe, BA	CHUNB69229	-38.910000	-12.121981
<i>K. calcarata</i> _AF	Una, BA	MD2707	-39.197266	-6.3258333
<i>K. calcarata</i> _AF	Ilhéus, BA	ABA29	-39.050000	-14.300000
<i>K. calcarata</i> _AF	Itacaré, BA	MTR11838	-39.000000	-10.250833
<i>K. calcarata</i> _AF	Ilhéus, BA	CB3C	-39.050000	-17.108700
<i>K. calcarata</i> _AF	Nísia Floresta, RN	8827	-35.05618	-6.253352
<i>K. calcarata</i> _AF	Canguaretama, RN	2574	-35.04431	-6.296736
<i>K. calcarata</i> _AF	Canguaretama, RN	2584	-35.04431	-6.296736
<i>K. calcarata</i> _AF	Canguaretama, RN	2682	-35.04431	-6.296736
<i>K. calcarata</i> _AF	Goianinha, RN	2801	-35.06531	-6.253453
<i>K. calcarata</i> _AF	Goianinha, RN	2802	-35.06531	-6.253453

<i>K. calcarata</i> _AF	Goianinha, RN	2819	-35.06531	-6.253453
<i>K. calcarata</i> _AF	Espírito Santo, RN	2828	-35.22139	-6.196379
<i>K. calcarata</i> _AF	Arês, RN	2943	-35.22139	-6.196379
<i>K. calcarata</i> _AF	Canguaretama, RN	3001	-35.04431	-6.296736
<i>K. calcarata</i> _AF	Goianinha, RN	3012	-35.06531	-6.253453
<i>K. calcarata</i> _AF	Arês, RN	3000	-35.22139	-6.196379
<i>K. calcarata</i> _AF	Canguaretama, RN	3003	-35.04431	-6.296736
<i>K. calcarata</i> _AF	Goianinha, RN	3013	-35.06531	-6.253453
<i>K. calcarata</i> _AF	Goianinha, RN	3018	-35.04431	-6.296736
<i>K. calcarata</i> _AF	Goianinha, RN	3146	-35.06531	-6.253453
<i>K. calcarata</i> _AF	Goianinha, RN	3148	-35.06531	-6.253453
<i>K. calcarata</i> _AF	Aripuanã, RN	63	-35.05027	-6.378376
<i>K. calcarata</i> _AF	Baía Formosa, RN	9776	-35.07193	-6.361787
<i>K. calcarata</i> _AF	Baía Formosa, RN	9780	-35.07193	-6.361787
<i>K. calcarata</i> _AF	Nísia Floresta, RN	9439	-35.05618	-6.253352
<i>K. calcarata</i> _AF	Baía Formosa, RN	3009	-35.05618	-6.253352
<i>K. calcarata</i> _AF	Baía Formosa, RN	5872	-35.05618	-6.253352
<i>K. calcarata</i> _AF	Uruçuí-Una, Uruçuí, PI	MTR5739	-45.25903	-7.329778
<i>K. paulensis</i>	Brasília, DF	CHUNB52359	-47.921386	-7.229730
<i>K. paulensis</i>	Ribeirão Cascalheira, MT	CHUNB73592	-51.82	-7.229730
<i>K. paulensis</i>	Paracatu, MG	CHUNB26030	-46.871860	-9.631667
<i>K. paulensis</i>	Paracatu, MG	CHUNB26031	-46.871860	-9.631667
<i>K. paulensis</i>	Paracatu, MG	CHUNB26032	-46.871860	-11.400117
<i>K. paulensis</i>	Paracatu, MG	CHUNB26033	-46.871860	-11.400117
<i>K. pelviceps</i>	Humaitá, AM	CHUNB32273	-63.11677	-7.572392
<i>K. pelviceps</i>	Humaitá, AM	CHUNB32271	-63.11677	-7.572392
<i>K. pelviceps</i>	Mutum, RO	HJ0537	-63.70227	-8.533491
<i>K. pelviceps</i>	Caiçara, RO	HJ0627	-63.90043	-8.7611605
<i>K. pelviceps</i>	Roraima, RR	HT4637	-63.61083	-5.3972734
<i>K. pelviceps</i>	São João do Lago da Velha, AM	CTGA452	-65.11596	-7.514981

<i>K. pelviceps</i>	Rio Japurá, AM	CTGA1040	-67.25497	-2.011626
<i>K. striata</i>	Amapá, AP	CHUNB14094	-50.90000	0.300000
<i>K. striata</i>	Amapá, AP	CHUNB14093	-50.90000	0.300000
<i>K. striata</i>	Boa vista, RR	CHUNB01612	-60.80021	3.300111
<i>K. striata</i>	Monte Alegre, PA	CHUNB30825	-54.18823	-2.051911
<i>K. striata</i>	Monte Alegre, PA	CHUNB30831	-54.18823	-2.051911
<i>K. striata</i>	Monte Alegre, PA	CHUNB30827	-54.18823	-2.051911
<i>K. striata</i>	Monte Alegre, PA	CHUNB30826	-54.18823	-2.051911
<i>K. striata</i>	Imbaimadai, Guyana	BPN1105	-60.29691	5.703194
<i>K. striata</i>	Imbaimadai, Guyana	BPN1119	-60.29691	5.703194
<i>K. striata</i>	Imbaimadai, Guyana	BPN1123	-60.29691	5.703194
<i>K. striata</i>	Imbaimadai, Guyana	BPN1133	-60.29691	5.703194
<i>K. striata</i>	Imbaimadai, Guyana	BPN1134	-60.29691	5.703194
<i>K. striata</i>	Imbaimadai, Guyana	BPN1135	-60.29691	5.703194
<i>K. striata</i>	Imbaimadai, Guyana	BPN1136	-60.29691	5.703194
<i>K. striata</i>	Imbaimadai, Guyana	BPN1165	-60.29691	5.703194
<i>K. striata</i>	Imbaimadai, Guyana	BPN1284	-60.29691	5.703194
<i>K. striata</i>	Imbaimadai, Guyana	BPN1285	-60.29691	5.703194
<i>K. striata</i>	Almeirim, PA	MPEG26789	-52.40776	-1.384589
<i>K. striata</i>	Mazagão, PA	MPEG29909	-51.83021	-0.333333
<i>K. striata</i>	Mazagão, PA	MPEG29910	-51.83021	-0.333333
<i>K. striata</i>	Mazagão, PA	MPEG29911	-51.83021	-0.333333
<i>K. striata</i>	Mazagão, PA	MPEG29912	-51.83021	-0.333333
<i>K. striata</i>	Mazagão, PA	MPEG29913	-51.83021	-0.333333
<i>K. striata</i>	Mazagão, PA	MPEG29914	-51.83021	-0.333333
<i>K. striata</i>	Mazagão, PA	MPEG29915	-51.83021	-0.333333
<i>K. striata</i>	Mazagão, PA	MPEG29928	-51.83021	-0.333333
<i>K. striata</i>	Mazagão, PA	MPEG29925	-51.83021	-0.333333
<i>K. striata</i>	Ilha de Maracá, RR	MTR20557	-61.03333	1.7750000
<i>K. vanzoi</i>	Vilhena, RO	CHUNB11602	-60.145800	-12.740600

<i>K. vanzoi</i>	Vilhena, RO	CHUNB11603	-60.145800	-12.740600
<i>K. vanzoi</i>	Vilhena, RO	LG1176	-60.100000	-12.700000
<i>K. vanzoi</i>	Gaúcha do Norte, MT	976670	-53.433333	-13.350000
<i>K. viridistriga</i>	Fazenda Perseverança, Bolívia	UFMT1254	-	-
<i>K. viridistriga</i>	Corumbá, MS	UFMT1270	-56,7233	-18,731
<i>K. viridistriga</i>	Poconé, MT	UFMT2375	-56,9485	-16,7845
<i>Kentropyx</i> sp. 1	Mateiros, TO	CHUNB41295	-46.672089	-17.108700
<i>Kentropyx</i> sp. 1	Mateiros, TO	CHUNB41297	-46.672089	-17.108700
<i>Kentropyx</i> sp. 1	Pium, TO	CHUNB73746	-49.180397	-17.108700
<i>Kentropyx</i> sp. 1	Pium, TO	CHUNB73747	-49.180397	-17.108700
<i>Kentropyx</i> sp. 2	Diamantina, MG	RAB3212	-43.786869	-9.578084
<i>Kentropyx</i> sp. 2	Diamantina, MG	RAB3213	-43.786869	-9.578084
<i>Kentropyx</i> sp. 2	Diamantina, MG	RAB3216	-43.786869	2.035456