

Supplementary Table 1. List of specimens with voucher information and assignment to biogeographic areas (A = Neotropics; B = Africa; C = Madagascar, Seychelles, Mascarenes, Comoros, Mayotte; D = Asia, incl. Malesia and Australia) used for the ancestral area reconstruction.

Taxon	Specimen (herbarium acronym)	Lab ID	Area coding	Plastid taxon set	Nuclear taxon set
<i>Adenarake muriculata</i> Maguire & Wurdack	Maguire, B 60447 (GH)	4	A	x	x
<i>Blastemanthus gemmiflorus</i> (Mart.) Planch.	Prance et al. 15495 (U)	10	A	x	x
<i>Brackenridgea arenaria</i> (De Wild. & T. Durand) N. Robson	Leteinturier et al. 253 (BR)	15	B	x	
<i>Brackenridgea nitida</i> ssp. <i>australiana</i> (F. Muell.) Kanis	Costion, C 1444 (CNS)	16B	D	x	x
<i>Brackenridgea madecassa</i> (H. Perrier) Callm.	Ammann, MY 361 (P)	21	C	x	x
<i>Brackenridgea palustris</i> Bartell. ssp. <i>palustris</i>	Podzorski, AC SMHI 547 (A)	28	D	x	x
<i>Brackenridgea zanguebarica</i> Oliv.	Kathumba & Tawakali 14B (MO)	34	B	x	x
<i>Campylospermum bukobense</i> (Gilg) Farron	Gereau, R 5418 (WAG)	41	B	x	x
<i>Campylospermum congestum</i> (Oliv.) Farron	Jongkind CCH 9158 (WAG)	45	B	x	
<i>Campylospermum elongatum</i> (Oliv.) Tiegh.	Wieringa 6292 (WAG)	55	B	x	x
<i>Campylospermum obtusifolium</i> (Lam.) Tiegh.	Luckow, M 4101 (MO)	86	C	x	x
<i>Campylospermum saclexii</i> (Tiegh.) Farron	Mhoro, B UMBCP 409 (MO)	95	B	x	x
<i>Campylospermum serratum</i> (Gaertn.) Bittrich & M.C.E.Amaral	Middleton, DJ et al. 3555 (A)	105	D	x	
<i>Campylospermum serratum</i> (Gaertn.) Bittrich & M.C.E.Amaral	T. & P. (Teo & Pachiappan) 438 (L)	106	D		x
<i>Cespedesia spathulata</i> (Ruiz & Pav.) Planch.	Cardoso, D 3396 (HUEFS)	113	A	x	x
<i>Elvasia calophyllea</i> DC.	Kubitzki, K 84-349 (NY)	126	A		x
<i>Elvasia capixaba</i> Fraga & M.M. Saavedra	Zamborlini 27 (MO)	131	A	x	
<i>Elvasia tricarpellata</i> Sastre	Santos, TS 3185 (CEPEC)	146	A		x
<i>Euthemis leucocarpa</i> Jack	van Niel, 4057 (L)	154	D	x	x
<i>Fleurydora felicis</i> A. Chev.	Haba, PM 18 (P)	163	B	x	x
<i>Froesia diffusa</i> Gereau & Vásquez	Zárate, R s.n. (HH)	167	A	x	x
<i>Godoya obovata</i> Ruiz & Pav.	Neill & Quizphe 14978 (MO)	171	A	x	x
<i>Idertia axillaris</i> (Oliv.) Farron	Jongkind, C.C.H. 11167 (WAG)	179	B	x	x
<i>Indosinia involucrata</i> (Gagnep.) J.E. Vidal	Poilane, E 3656 (P)	182	D	x	x
<i>Indovethia calophylla</i> Boerl.	Brooke, W.M.A. 9671 (L)	183	D	x	x
<i>Krukoviella disticha</i> (Tiegh.) Dwyer	Neill et al 15849 (MO)	186	A	x	x
<i>Lacunaria macrostachya</i> (Tul.) A.C. Sm.	Zárate, R 16751 (HH)	193	A	x	x
<i>Lophira alata</i> Banks ex C.F. Gaertn.	RGBE 20110701A (RBGE)	199	B	x	x
<i>Luxemburgia dicaliata</i> Dwyer	Benko-Iseppon, AM et al 1789 (UFP)	227x	A	x	x
<i>Luxemburgia glazioviana</i> (Engl.) Beauverd	Feres, F 99/79 (UEC)	235	A	x	x
<i>Medusagyne oppositifolia</i> Baker	RGBE 20030393 (RBGE)	264	C	x	x
<i>Neckia serrata</i> Korth.	Khairuddin (F.R.I.) 31754 (L)	267	D	x	x
<i>Ochna</i> cf. <i>andravinensis</i> Baill.	Phillipson, PB 3122 (MO)	277	C		x
<i>Ochna boiviniana</i> Baill.	Humbert, H 24010 (P)	288	C	x	x

<i>Ochna confusa</i> Burt Davy & Greenway	Harder, DK 2156 (MO)	298	B	x	x
<i>Ochna holstii</i> Engl.	Hafashimana, DLN 662 (K)	307	B	x	x
<i>Ochna integerrima</i> (Lour.) Merr.	Newman, MF LAO56 (L)	316	D		x
<i>Ochna integerrima</i> (Lour.) Merr.	Svengsuksa, B BT34 (L)	317	D	x	
<i>Ochna latiseipala</i> (Tiegh.) Bamps	Niangadouma, R & Gretchen Walters 151 (MO)	328	B	x	x
<i>Ochna macrantha</i> Baker	Phillipson 2578 (S)	335	C		x
<i>Ochna serrulata</i>	RBGE 19490083B (RBGE)	356	B	x	x
<i>Ochna pervilleana</i> Baill.	Labat, J-N et al. 2227 (P)	368	C		x
<i>Ochna polycarpa</i> Baker	Rakotomalaza, P.-J. et al. 1198 (WAG)	372	C	x	x
<i>Ochna sambiranensis</i> Callm. & Philipson	Callmander, M 290 (P)	391	C		x
<i>Ochna thomasiana</i> Engl. & Gilg	Beentje 2365 (WAG)	411	B	x	x
<i>Ochna</i> cf. <i>vaccinioides</i> Baker	Andriamiharivo, T. (P)	414	C	x	
<i>Ouratea bahiensis</i> Sastre	Cardoso, D 2497 (HUEFS)	842	A	x	
<i>Ouratea penduloseipala</i> Sastre	Tavares, A.S. 190 (P)	693	A	x	x
<i>Ouratea pseudogigantophylla</i> Sastre	Irwin HS et al. 55082 (P)	707	A	x	x
<i>Ouratea revoluta</i> (C. Wright ex Griseb.) Engl.	Hernandez Valdes, JA & L Mecías 36977 (FR)	726	A	x	x
<i>Ouratea riparia</i> Sleumer	Lindeman, JC et al. 240 (P)	732	A	x	x
<i>Perissocarpa steyermarkii</i> (Maguire) Steyermark & Maguire	Liesner, RL & Gonzalez 10249 (MO)	857	A		x
<i>Perissocarpa umbellifera</i> Steyermark & Maguire	Amaral, MCE 1561 (NY)	859	A	x	
<i>Philacra auriculata</i> Dwyer	Liesner, RL 16657 (MO)	862	A	x	
<i>Poecilandra pumila</i> Steyermark.	Hoffmann et al. 1636 (U)	869	A	x	x
<i>Quiina amazonica</i> A.C. Sm.	Zárate 16753 (HH)	875c	A	x	
<i>Rhabdophyllum arnoldianum</i> (De Wild. & T. Durand) Tiegh.	Sosef 2239 (WAG)	878	B		x
<i>Rhabdophyllum calophyllum</i> (Hook. f.) Tiegh.	Sosef 2685 (WAG)	882	B		x
<i>Rhytidanthera splendida</i> (Planch.) Tiegh.	Steyermark, JA & Manara 125172 (MO)	889	A	x	
<i>Sauvagesia capillaris</i> (A. St.-Hil.) Sastre	Cardoso, D 4116 (HUEFS)	900	A	x	x
<i>Sauvagesia amoena</i> Ule	Campbell P22564 (MO)	976	A	x	x
<i>Sauvagesia erecta</i> L.	Benko-Iseppon 1790 (UFP/FR)	907x	A	x	x
<i>Sauvagesia paganuccii</i> D.B.O.S. Cardoso & Harley	Cardoso, D 3578 (HUEFS)	933	A	x	x
<i>Schuermansia henningsii</i> K. Schum.	Morawetz & Waha 13-2287 (LZ)	1047	D	x	x
<i>Schuermansiella angustifolia</i> (Hook. f.) Hallier f.	Panero et al. 6288 (US)	1051	D	x	x
<i>Testulea gabonensis</i> Pellegr.	Wieringa, JJ 6171 (WAG)	1056	B	x	x
<i>Touroulia guianensis</i> Aubl.	Prévost, MF 4595 (CAY)	1058	A	x	x
<i>Tyleria silvana</i> Maguire	Liesner & Delascio 22006 (U)	1070	A	x	x
<i>Wallacea multiflora</i> Ducke	Berry, PE 5926 (MO)	1082	A	x	x
<i>Bonnetia stricta</i> (Nees) Nees & Mart.	Benko-Iseppon 1726 (UFP)	1084	-	x	x