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Benna alternifolia (Melastomataceae: Sonerileae), a new herbaceous genus and species from Guinea, West Africa

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Appendix 1

GenBank accession numbers for sequences used in the phylogenetic placement of the genus *Benna*. GenBank accession numbers with an asterisk (*) are newly sequenced for this study. The dash (–) indicates missing data.

Names	nrITS	accD-psal	psbK-psbL	nrETS	ndhF
<i>Acanthella sprucei</i>	JQ730036	JQ730247	JQ730456	KF462811	–
<i>Aciotis paludosa</i>	JQ730040	JQ730251	JQ730460	KF462814	–
<i>Aciotis purpurascens</i>	JQ730041	JQ730252	JQ730461	KF462815	AF215561
<i>Acisanthera hedyotoidea</i>	JQ730044	JQ730255	JQ730464	KU501001	–
<i>Adelobotrys subsessilis</i>	AY966407	–	MH781651	MH781591	MH760283
<i>Allomorpha balansae</i>	MG644470	MK994792	MK994792	–	MK994792
<i>Amphiblemma ciliatum</i> 1	OL414843*	OL744332*	OL698719*	OK667182*	OL365035*
<i>Amphiblemma ciliatum</i> 2	OL414844*	OL744333*	OL698720	OK667183*	OL365036*
<i>Amphiblemma ciliatum</i> 3	OL414845*	OL744334*	–	OK667184*	OL365037*
<i>Amphiblemma cuneatum</i>	OL414846*	–	OL698721*	–	–
<i>Amphiblemma cymosum</i>	OL414847*	OL744335*	–	OK667185*	OL365034*
<i>Amphiblemma gossweileri</i> 1	OL414848*	OL744336*	OL698722*	–	OL365038*
<i>Amphiblemma gossweileri</i> 2	OL414849*	OL744337*	OL698723*	OK667186*	OL365039*
<i>Amphiblemma hallei</i>	OL414850*	–	OL698724*	–	–
<i>Amphiblemma heterophyllum</i>	OL414851*	OL744338*	OL698725*	OK667187*	OL365040*
<i>Amphiblemma lanceatum</i>	OL414852*	–	OL698726*	OK667188*	–
<i>Amphiblemma mildbraedii</i> 1	OL414853*	–	OL698727*	OK667189*	–
<i>Amphiblemma mildbraedii</i> 2	OL414854*	OL744339*	OL698728*	–	OL365041*
<i>Amphiblemma molle</i> 1	OL414855*	–	OL698729*	–	–
<i>Amphiblemma molle</i> 2	OL414856*	–	OL698730*	–	–
<i>Amphiblemma mvensis</i>	OL414857*	–	–	–	–
<i>Amphiblemma setosum</i> 1	OL414858*	–	OL698731*	OK667190*	–
<i>Amphiblemma setosum</i> 2	OL414859*	–	OL698732*	–	–
<i>Amphiblemma soyauxii</i>	OL414860*	–	OL698733*	–	–
<i>Amphiblemma</i> sp. 1	OL414861*	OL744331*	OL698734*	OK667191*	OL365042*
<i>Amphiblemma</i> sp. 2	OL414862*	OL744340*	OL698735*	OK667192*	OL365043*
<i>Amphiblemma</i> sp. 3	OL414863*	OL744341*	OL698736*	OK667193*	OL365044*
<i>Amphiblemma</i> sp. 4	OL414864*	–	OL698737*	OK667194*	–
<i>Amphorocalyx rupestris</i>	JQ730046	JQ730257	JQ730466	–	–
<i>Anerinacleistus macrophyllus</i>	MN031184	MK994887	MK994887	–	MK994887
<i>Appendicularia thymifolia</i>	JQ730049	JQ730260	JQ730468	KF462820*	–
<i>Arthrostemma primaevum</i>	JQ730050	JQ730261	JQ730469	–	JF831972
<i>Barthea barthei</i>	MG644388	KY873324	KY873324	–	KY873324
<i>Benna alternifolia</i> 1	OL414908*	–	OL698783*	–	–
<i>Benna alternifolia</i> 2	OL414909*	–	OL698784*	OK667214*	–
<i>Bertonia acuminata</i>	MK258150	KX826820	KX826820	MK296603	KX826820
<i>Bertonia alternifolia</i>	MH708155	–	MK296663	MH722270	MH729204
<i>Bertonia angustipetala</i>	MK258151	–	MK296664	MK296604	–

Names	nrITS	accD-psal	psbK-psbL	nrETS	ndhF
<i>Bertolonia bullata</i>	MH708154	–	–	MH722271	MH729205
<i>Bertolonia mosenii</i>	MH708156	–	MK296678	MK296614	JF831973
<i>Bertolonia paranaensis</i>	MH708157	–	MK296681	MH722277	MH729208
<i>Bertolonia reginatoii</i>	MK258160	–	MK296682	MK296615	–
<i>Blakea chlorantha</i>	GU968789	–	–	–	GU968806
<i>Blakea gracilis</i>	AY460445	–	–	–	GU968807
<i>Blakea schlimii</i>	AY460441	KX826821	KX826821	–	KX826821
<i>Blastus boreensis</i>	OL414865*	OL744342*	OL698738*	–	OL365045*
<i>Blastus ernae</i>	MN382045	MK994800	–	–	MK994800
<i>Blastus mollissimus</i>	MN382046	MK994863	–	–	MK994863
<i>Boyania colombiana</i>	–	–	MK296693	MK296625	–
<i>Brachyotum incrassatum</i>	JQ730056	JQ730267	JQ730475	KF462826	–
<i>Bredia hirsuta</i>	MN031213	–	MK994872	–	MK994872
<i>Bredia repens</i>	MF952713	MK994832	–	–	MK994832
<i>Calvoa crassinoda</i>	OL414866*	–	OL698739*	–	–
<i>Calvoa hirsuta</i> 1	OL414867*	–	–	–	OL365027*
<i>Calvoa hirsuta</i> 2	OL414868*	–	OL698740*	–	OL365028*
<i>Calvoa hirsuta</i> 3	OL414869*	OL744343*	OL698741*	–	OL365029*
<i>Calvoa jacques-felixii</i>	OL414870*	–	OL698742*	–	OL365046*
<i>Calvoa maculata</i>	OL414871*	–	–	–	OL365030*
<i>Calvoa monticola</i> 1	OL414872*	–	OL698743*	–	OL365048*
<i>Calvoa monticola</i> 2	OL414873*	–	OL698744*	–	OL365049*
<i>Calvoa orientalis</i> 1	OL414874*	–	OL698745*	–	OL365050*
<i>Calvoa orientalis</i> 2	OL414875*	OL744344*	OL698746*	OK667195*	OL365051*
<i>Calvoa pulcherrima</i> 1	OL414876*	OL744345*	OL698747*	–	OL365052*
<i>Calvoa pulcherrima</i> 2	OL414877*	OL744346*	OL698748*	–	OL365053*
<i>Calvoa pulcherrima</i> 3	OL414866*	MG702538	–	–	MG702549
<i>Calvoa seretii</i> 1	OL414865*	OL744347*	OL698749*	OK667196*	OL365054*
<i>Calvoa seretii</i> 2	OL414878*	OL744348*	OL698750*	–	OL365055*
<i>Calvoa seretii</i> 3	OL414879*	OL744349*	OL698751*	OK667198*	OL365056*
<i>Calvoa seretii</i> 4	OL414880*	OL744350*	OL698752*	–	OL365057*
<i>Calvoa seretii</i> 5	OL414881*	MG702539	MG518555	OK667197*	MG702550
<i>Calvoa seretii</i> 6	MG518540	OL744349*	–	OK667198*	–
<i>Calvoa zenkeri</i>	OL414882*	–	OL698753*	–	OL365047*
<i>Cambessedesia espora</i>	–	JQ730273	JQ730481	KF462834	JQ899114
<i>Castratella piloselloides</i>	JQ730064	JQ730275	JQ730483	–	AY553783
<i>Centradenia inaequilateralis</i>	JQ730066	JQ730277	JQ730484	–	AF215563
<i>Chaetolepis cufodontisii</i>	JQ730067	JQ730278	JQ730485	–	–
<i>Chaetostoma armatum</i>	JQ730069	JQ730280	JQ730487	–	–
<i>Cincinnobotrys acaulis</i> 1	OL414883*	–	OL414883*	–	–
<i>Cincinnobotrys acaulis</i> 2	OL414884*	–	OL414884*	–	–
<i>Cincinnobotrys felicitis</i> 1	OL414885*	–	OL414885*	–	OL365031*
<i>Cincinnobotrys felicitis</i> 2	OL414886*	–	OL414886*	–	OL365032*
<i>Cincinnobotrys oreophila</i>	OL414887*	–	OL414887*	–	–
<i>Cincinnobotrys ranarum</i>	OL414888*	–	OL414888*	OK667200*	OL365033*
<i>Clidemia umbellata</i>	EU055674	–	KF821911	KF820711	EU055929
<i>Comolia microphylla</i>	JQ730070	JQ730281	JQ730488	KF462841	JF831975
<i>Creochiton roseus</i>	MW462482	–	MW462244	MW462332	MW462401
<i>Cyphotheca montana</i>	MG644447	MK994852	MK994852	–	MK994852
<i>Dalenia beccariana</i>	MW462519	MK994889	MW462297	–	MW462442
<i>Desmoscelis villosa</i>	JQ730073	JQ730284	JQ730491	KF462844	–
<i>Dicellandra barteri</i> 1	MG518542	MG702537	MG518557	MG518532	MG702552
<i>Dicellandra barteri</i> 2	OL414889*	OL744350*	OL414890*	OK667201*	OL365058*

Names	nrITS	accD-psal	psbK-psbL	nrETS	ndhF
<i>Dicellandra barteri</i> 3	OL414890*	OL744351*	OL414889*	OK667202*	OL365059*
<i>Dicellandra descoingsii</i>	OL414891*	OL744353*	OL414891*	OK667203*	OL365060*
<i>Dicellandra descoingsii</i>	MG518541	–	MG518556	MG518531	MG702551
<i>Dicellandra</i> sp.	OL414892*	–	OL414892*	–	OL365061*
<i>Dichaetanthera arborea</i>	KX889223	–	KY284742	MF397948	MF398043
<i>Dinophora spenneroides</i>	KX889227	–	KY284746	MF397951	MF398047
<i>Dissochaeta griffithii</i>	MW462510	–	MW462278	MW462359	MW462433
<i>Dissochaeta rostrata</i>	MW462523	OL744354*	MW462293	OK667204*	OL365062*
<i>Dissochaeta stipularis</i>	–	OL744355*	–	OK667205*	OL365063*
<i>Driessenia glanduligera</i>	MN031197	MK994879	MK994879	–	MK994879
<i>Eriocnema fulva</i>	EF418811	KX826822	KX826822	KX826822	KX826822
<i>Ernestia glandulosa</i>	JQ730080	JQ730293	JQ730499	KF462847	–
<i>Fordiophyton cordifolium</i>	MN031160	MK994784	–	–	MK994784
<i>Fordiophyton strictum</i>	MN031161	MK994816	–	–	MK994816
<i>Fritzschia erecta</i>	JQ730083	JQ730296	JQ730502	KF462849	–
<i>Graffenrieda moritziana</i>	AY460451	JQ730298	JQ730504	KF820749	EU055944
<i>Gravesia</i> aff. <i>scripta</i>	OL414893*	–	OL414893*	–	OL365021*
<i>Gravesia</i> aff. <i>scripta</i>	OL414894*	–	OL414894*	–	OL365015*
<i>Gravesia barbata</i>	OL414895*	–	OL414895*	OK667206*	–
<i>Gravesia biauriculata</i>	OL414896*	–	OL414896*	–	OL365016*
<i>Gravesia erecta</i>	OL414897*	–	OL414897*	–	OL365017*
<i>Gravesia guttata</i>	–	MG702540	MG518558)	MG518533	MG702553
<i>Gravesia laxiflora</i>	–	MG702540	MG518558	MG518533	MG702553
<i>Gravesia nigrescens</i>	MG518543	MG702541	MG518559	–	MG702554
<i>Gravesia pterocaulon</i>	MG518544	MG702542	MG518560	MG518534	MG702555
<i>Gravesia pulchra</i>	OL414899*	–	OL414899*	–	–
<i>Gravesia pusilla</i>	–	OL744356*	–	–	OL365022*
<i>Gravesia riparia</i>	OL414900*	–	OL414900*	–	–
<i>Gravesia serratifolia</i>	–	–	–	–	OL365018*
<i>Gravesia setifera</i> 1	–	MG702543	MG518561	MG518535	MG702556
<i>Gravesia setifera</i> 2	–	OL744357*	OL414901*	OK667209*	OL365023*
<i>Gravesia</i> sp. 1	OL414901*	OL744359*	OL414902*	OK667210*	OL365019*
<i>Gravesia</i> sp. 2	OL414902*	OL744358*	OL414903*	OK667207*	–
<i>Gravesia</i> sp. 3	–	–	OL414904*	OK667208*	OL365020*
<i>Gravesia</i> sp. 4	OL414904*	OL744361*	OL414901*	–	–
<i>Gravesia</i> sp. 5	OL414905*	OL744362*	–	–	OL365024*
<i>Gravesia</i> sp. 6	OL414903*	OL744360*	–	–	–
<i>Gravesia tanalensis</i>	MG518546	MG702544	MG518562	–	–
<i>Gravesia vestita</i>	OL414906*	OL744364*	OL414906*	OK667211*	OL365025*
<i>Gravesia viguieri</i>	–	OL744365*	–	–	OL365026*
<i>Henriettea barkeri</i>	KJ933957	–	KX826824	KX826824	KX826824
<i>Heteroblemma serpens</i>	MN031200	MK994886	MK994886	MK994886	MK994886
<i>Heterocentron muricatum</i>	JQ730086	JQ730300	JQ730507	KF462851	–
<i>Heterotis prostrata</i>	KX889287	KY284713	KY284812	MF398013	MF398111
<i>Itatiaia cleistopetala</i>	JQ730090	JQ730303	JQ730510	KF462854	–
<i>Lavoisiera phyllocalycina</i>	KF463034	KF407960	KF463001	KF462856	–
<i>Leandra salicina</i>	EU055703	GQ139261	GQ139346	KR062444	EU055960
<i>Macairea thyrsoflora</i>	JQ730096	JQ730308	JQ730515	KF462860	–
<i>Macrocentrum anfractum</i>	KF821521	–	KF822037	KF820851	MH729210
<i>Macrocentrum brevipedicellatum</i>	MH819881	–	MH781674	MH781610	MH760311
<i>Macrocentrum cristatum</i>	MF785406	–	MF105286	MH781611	AM235412
<i>Macrocentrum droseroides</i>	KF821523	–	MK296696	KF820852	MH729211
<i>Macrocentrum neblinae</i>	KF821527	–	MH781675	KF820855	MH729212

Names	nrITS	accD-psal	psbK-psbL	nrETS	ndhF
<i>Macrocentrum parvulum</i>	MH819882	–	MH781676	MH781612	MH760315
<i>Macrocentrum repens</i>	KF821528	–	KF822043	KF820856	AF215551
<i>Macrolenes horrida</i>	MW462512	–	MW462280	MW462361	MW462435
<i>Macrolenes pachygyna</i>	MW462543	MK994894	–	–	MK994894
<i>Maguireanthus ayangannae</i>	MH819884	–	MH781677	MH781613	MH760317
<i>Marcetia taxifolia</i>	JQ730102	JQ730311	JQ730521	KU501041	GU968825
<i>Medinilla amplexans</i>	MN031219	MK994882	MK994882	–	MK994882
<i>Medinilla beamanii</i>	MN031220	MK994880	MK994880	–	MK994880
<i>Medinilla chermesonii</i>	–	MG702545	MG518563	MG518536	MG702557
<i>Medinilla fengii</i>	MG644482	MK994809	–	–	MK994809
<i>Medinilla humberiana</i>	–	–	AF215517	–	AF215557
<i>Medinilla intermedia</i>	–	–	MW462318	–	MW462468
<i>Medinilla lophoclada</i>	–	MG702546	MG518564	MG518537	MG702558
<i>Medinilla mannii</i> 1	–	–	–	OK667212*	–
<i>Medinilla mannii</i> 2	–	OL744366*	–	OK667213*	OL365064*
<i>Medinilla micrantha</i>	–	MG702547	MG518565	MG518538	MG702559
<i>Medinilla myrtiformis</i>	–	–	MW462319	–	MW462469
<i>Medinilla petelotii</i>	MN031218	MK994847	–	–	MK994847
<i>Medinilla rubicunda</i>	–	–	MW462320	–	MW462470
<i>Medinilla speciosa</i>	MN031221	MK994885	MK994885	MK994885	MK994885
<i>Medinilla squillula</i>	MG518547	MG702548	MG518566	MG518539	MG702560
<i>Medinilla teysmannii</i>	–	–	MW462322	MW462394	MW462471
<i>Melastoma sanguineum</i>	JQ730106	JQ730315	JQ730525	–	AF270754
<i>Melastomastrum afzelii</i>	KX889290	KY284715	KY284815	MF398015	MF398113
<i>Melastomastrum theifolium</i> 1	OL414907*	OL744368*	–	–	–
<i>Melastomastrum theifolium</i> 2	KX889296	KY284720	KY284822	MF398021	MF398119
<i>Meriania calophylla</i>	EU055707	–	KF822062	KF820876	EU055969
<i>Miconia dodecandra</i>	AY460506	JQ730317	JQ730527	KF821020	–
<i>Microlepis oleifolia</i>	JQ730107	JQ730319	JQ730529	KU501051	AF272815
<i>Microlicia fulva</i>	KU501105	KU501205	KF463004	KU501051	–
<i>Monochaetum discolor</i>	JQ730109	JQ730321	JQ730531	KF462863	–
<i>Monolena primuliflora</i>	–	–	MK164942	MK296626	AF215552
<i>Ochthocharis borneensis</i>	–	–	MK994895	–	MK994895
<i>Ochthocharis dicellandroides</i> 1	–	–	MG518550	MG518526	MG702562
<i>Ochthocharis dicellandroides</i> 2	–	–	MG518550	MG518526	MG702562
<i>Osbeckia nepalensis</i>	JQ730118	JQ730329	JQ730539	–	AF272817
<i>Ossaea angustifolia</i>	GQ139309	–	GQ139352	–	–
<i>Oxyispora paniculata</i>	MN031212	MK994816	MK994816	–	MK994816
<i>Oxyispora teretipetiolata</i>	MG644476	MK994853	–	–	MK994853
<i>Pachycentria constricta</i>	MW462548	–	MW462326	MW462397	MW462474
<i>Pachycentria microsperma</i>	–	OL744367*	–	–	OL365065*
<i>Pachyloma huberioides</i>	JQ730120	JQ730331	JQ730541	KF821339	–
<i>Phainantha shuariorum</i>	–	–	–	–	JF831981
<i>Phyllagathis erecta</i>	MG644442	MK994811	–	–	MK994811
<i>Phyllagathis gracilis</i>	MG644403	MK994796	–	–	MK994796
<i>Phyllagathis hispida</i>	MG644435	MK994783	–	–	MK994783
<i>Phyllagathis stenophylla</i>	MG644427	MK994793	–	–	MK994793
<i>Phyllagathis tetrandra</i>	MG64443	MK994817	–	–	MK994817
<i>Plagiopetalum esquirolii</i>	MN031202	MK994851	–	–	MK994851
<i>Plagiopetalum serratum</i>	MN031170	MK994902	MK994902	–	MK994902
<i>Preussiella kamerunensis</i> 1	OL414910*	–	OL414910*	–	–
<i>Preussiella kamerunensis</i> 2	OL414911*	–	OL414911*	OK667215*	–
<i>Preussiella kamerunensis</i> 3	OL414912*	–	OL414912*	–	–

Names	nrITS	accD-psal	psbK-psbL	nrETS	ndhF
<i>Pseudodissochaeta assamica</i>	MG644480	MK994848	MK994848	–	MK994848
<i>Pseudodissochaeta lanceata</i>	MN031232	MK994850	MK994850	–	MK994850
<i>Pseudodissochaeta septentrionalis</i>	MN031231	MK994778	–	–	MK994778
<i>Pseudosbeckia swynnertonii</i>	KX889302	KY284722	KY284828	MF398024	MF398125
<i>Pterogastra divaricata</i>	JQ730126	KX826829	KX826829	KX826829	–
<i>Pterolepis glomerata</i>	JQ730126	JQ730337	JQ730547	KF462875	–
<i>Rhexia aristosa</i>	JQ730129	JQ730340	JQ730550	KF462876	AF215571
<i>Rhexia virginica</i>	JQ730134	JQ730345	JQ730555	KF462878	–
<i>Rhynchanthera bracteata</i>	JQ730136	JQ730346	JQ730557	KF462879	AF215587
<i>Rhynchanthera grandiflora</i>	JQ730137	JQ730347	JQ730558	KF462880	–
<i>Rosettea elliotii</i>	JQ730138	JQ730348	JQ730559	KF462881	AF215584
<i>Rousseauxia andringitrensis</i>	JQ730139	JQ730350	JQ730561	–	–
<i>Salpinga glandulosa</i>	MH819927	–	MH781717	MH781649	–
<i>Salpinga maranonensis</i>	KY991873	KX826832	KX826832	–	KX826832
<i>Salpinga peruviana</i>	MH819928	–	MH781718	MH781650	MH760363
<i>Salpinga secunda</i>	KY991815	–	MF105092	–	–
<i>Sandemanina hoehnei</i>	JQ730141	JQ730352	–	KF462882	–
<i>Scorpiothyrsus shangszeensis</i>	MN031186	MK994866	MK994866	–	MK994866
<i>Sonerila borneensis</i>	MN031190	MK994893	MK994893	–	MK994893
<i>Sonerila celebica</i>	MW462552	–	MW462331	MW462398	MW462479
<i>Sonerila parviflora</i>	MN031223	MK994900	MK994900	–	MK994900
<i>Sonerila pulchella</i>	MN031193	MK994884	MK994884	–	MK994884
<i>Sonerila velutina</i>	MN031224	MK994892	MK994892	–	MK994892
<i>Sonerila yunnanensis</i>	–	MK994862	MK994862	–	MK994862
<i>Sporoxeia clavicalcarata</i>	MN031192	MK994901	MK994901	–	MK994901
<i>Styrophyton caudatum</i>	MN031176	MK994860	MK994860	–	MK994860
<i>Svitramia pulchra</i>	JQ730145	JQ730356	JQ730567	KF462888	–
<i>Tashiroea okinawensis</i>	MN031204	MK994803	MK994803	–	MK994803
<i>Tetrazygia urbanii</i>	–	–	KF822547	–	AF270753
<i>Tibouchina arborea</i>	JQ730152	JQ730363	JQ730575	KF462893	–
<i>Tibouchina dubia</i>	JQ730179	JQ730388	JQ730599	KF462923	–
<i>Tibouchina gracilis</i>	JQ730190	JQ730398	JQ730610	KF462933	–
<i>Tibouchina granulosa</i>	JQ730191	JQ730399	JQ730611	KF462934	–
<i>Tibouchina grossa</i>	JQ730192	JQ730400	JQ730612	KF462935	JF831983
<i>Tibouchina longifolia</i>	JQ730204	KY821071	JQ730624	–	AF215572
<i>Tibouchina ramboi</i>	JQ730224	JQ730432	JQ730644	KF462966	–
<i>Tibouchina saxosa</i>	KF463048	KF407981	KF463021	KF462968	–
<i>Tibouchina ursina</i>	JQ730237	JQ730446	JQ730658	KF462982	–
<i>Tibouchinopsis mirabilis</i>	JQ730241	JQ730450	JQ730662	KF462986	–
<i>Tigridiopalma magnifica</i>	MG644449	MF663760	MF663760	–	MF663760
<i>Tococa spadiciflora</i>	EU055897	–	KF822568	–	EU056139
<i>Trembleya parviflora</i>	JQ730242	JQ730451	JQ730663	KF462987	–
<i>Triolena amazonica</i>	–	KX826834	KX826834	KX826834	KX826834
<i>Triolena spicata</i>	KY782508	–	MK296701	MK296627	–
<i>Tryssophyton merumense</i>	MF785430	–	–	–	MK284234

Willdenowia

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