

TAXON

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Phylogeny of *Hedyotis* L. (Rubiaceae: Spermacoceae): Redefining a complex Asian-Pacific assemblage

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Taxon 62: 357–374

Table S1. List of investigated taxa and accession numbers for sequences used in the analyses. DNA voucher information is given for new sequences. The generic names *Oldenlandia* and *Hedyotis* are used following Govaerts & al. (2011).

Taxon	Taxon distribution	DNA voucher	Area of collection	Lab. Ident.	<i>rps16</i>	<i>petD</i>	ITS	ETS
<i>Agathisanthemum bojeri</i> Klotzsch	Africa				EU543018	EU557678	AM939424	–
<i>Agathisanthemum chlorophyllum</i> (Hochst.) Bremek.	Africa	<i>E.E. Galfrin m174</i> (A)	S. Africa	cB031	HE649787	HE657551	HE657657	HE681450
<i>Agathisanthemum globosum</i> (Hochst. ex A. Rich.) Klotzsch	Africa				EU543019	EU557679	AM939425	–
<i>Agathisanthemum quadricostatum</i> Bremek.	Africa	<i>E. Mboya 606</i> (S)	Tanzania	cC031	HE649788	HE657552	HE657658	–
<i>Amphasma merenskyanum</i> Bremek.	Africa	<i>R. Seydel 3118</i> (A)	Namibia	cB033	HE649789	HE657553	HE657659	HE681451
<i>Arcytophyllum muticum</i> (Wedd.) Standl.	S. America				AF002754	EU557682	AM939429	–
<i>Arcytophyllum thymifolium</i> (Ruiz & Pav.) Standl.	S. America				AF333366	EU557683	AM939431	–
<i>Batopedina pulvinellata</i> Robbr.	Africa				EU543021	EU557684	–	–
<i>Carphalea madagascariensis</i> Lam.	Madagascar				EU543023	EU557686	–	–
<i>Cordylostigma microcala</i> (Bremek.) Groeninckx & Dessein	Africa				EU543039	EU557725	AM939479	AM932962
<i>Cordylostigma virgata</i> (Willd.) Groeninckx & Dessein	Africa	<i>R. Seydel 2723</i> (A)	Namibia	cB032	HE798557	HE657554	HE657660	HE681452
<i>Dentella repens</i> (L.) J.R. Forst. & G. Forst.	Asia, Australasia, Pacific				AF333370	EU557693	AM939440	AM932930
<i>Dibrachionostylus kaessneri</i> (S. Moore) Bremek.	Africa				AF002761	EU557694	AM939442	AM932932
<i>Hedyotis acutangula</i> Champ. ex Benth.	China, Indochina	<i>S.Y. Hu & Y.C. Kong 184</i> (A)	China	cB002	HE649790	HE657555	HE657661	HE681453
<i>Hedyotis ampliflora</i> Hance	China, Indochina	<i>F.C. How 73897</i> (A)	China	cB056	HE649791	HE657556	–	HE681454
<i>Hedyotis articularis</i> R. Br. ex G. Don	India	<i>Klackenberg & Lundin 167</i> (S)	India	bP048	HE649793	HE657557	HE657663	HE681456
<i>Hedyotis cantoniensis</i> F.C.How ex W.C. Ko	China				–	JF700061	JF699912	–
<i>Hedyotis cantoniensis</i> F.C.How ex W.C. Ko	–	<i>Li Ming 1193</i> (MO)	China	cA056	HE649794	HE657558	HE657664	HE681457
<i>Hedyotis capitellata</i> Wall. ex G. Don	–	<i>John H. Beaman 8630</i> (L)	Malaysia	bZ031	HE649796	HE657560	HE657666	HE681459
<i>Hedyotis capitellata</i> Wall. ex G. Don	China, Trop. Asia	<i>Bremer & Bremer 1825</i> (UPS)	Malaysia	bR098	HE649795	HE657559	HE657665	HE681458
<i>Hedyotis cathayana</i> W.C. Ko	China	<i>Tim Motley 3214</i> (ODU)	China		HE649798	HE657562	HE657668	HE681461
<i>Hedyotis caudatifolia</i> Merr. & F.P. Metcalf	China	<i>W.Y. Chun 6368</i> (A)	China	cB027	HE649799	HE657563	HE657669	HE681462
<i>Hedyotis caudatifolia</i> Merr. & F.P. Metcalf	–				–	JF700064	JF699915	–
<i>Hedyotis caudatifolia</i> Merr. & F.P. Metcalf	–	<i>Tsang, WT 28727</i> (A)	China	cB037	HE649800	–	–	HE681463
<i>Hedyotis cheniana</i> R.J. Wang	China	<i>Tim Motley 3190</i> (ODU)	China		HE649801	HE657564	–	HE681464
<i>Hedyotis communis</i> W.C. Ko	China	<i>Nat. Geogr. Society Hainan Expedition 384</i> (MO)	China	cA055	HE649802	HE657565	HE657670	HE681465
<i>Hedyotis coprosmoides</i> Trimen	Sri Lanka	<i>Wambeck & al. 2783</i> (S)	Sri Lanka	bS014	HE649803	HE657566	HE657671	HE681466
<i>Hedyotis coronaria</i> (Kurz) Craib	China, Trop. Asia	<i>E.F. Anderson 5464</i> (A)	Thailand	cB040	–	HE657567	HE657672	HE681467
<i>Hedyotis costata</i> (Roxb.) Kurz	China, Trop. Asia	<i>Christensen & Apu 415</i> (AAU)	Malaysia	bS041	HE649805	HE657568	HE657673	HE681468
<i>Hedyotis decora</i> Geddes	Thailand	<i>M. Tagawa & al. 4851</i> (A)	Thailand	cB005	–	–	HE657675	HE681470

Table S1. Continued.

Taxon	Taxon distribution	DNA voucher	Area of collection	Lab. Ident.	<i>rps16</i>	<i>petD</i>	ITS	ETS
<i>Hedyotis dendroides</i> Alston in H. Trimen	Sri Lanka	<i>Lundqvist 11272</i> (UPS)	Sri Lanka	bS002	HE649807	–	HE657676	HE681471
<i>Hedyotis dianxiensis</i> W.C. Ko	China	<i>Tsi Zhanhuo 92-100</i> (MO)	China	bZ048	HE649808	HE657570	HE657677	HE681472
<i>Hedyotis effusa</i> Hance	China, Vietnam				–	JF700083	JF699933	–
<i>Hedyotis effusa</i> Hance	–	<i>Tsang 21044</i> (S)	?	aT081	HE649809	–	AM939491	AM932940
<i>Hedyotis fissistipula</i> Merr.	Borneo	<i>J.B.J. Blewett 17</i> (A)	Malaysia (Sabah)	cB019	HE649810	HE657571	HE657678	HE681473
<i>Hedyotis flavescens</i> Thwaites	Sri Lanka	<i>Suman Neupane 61</i> (PDA)	Sri Lanka		HE649811	–	HE657679	HE681474
<i>Hedyotis fruticosa</i> L.	Indian subc., Myanmar	<i>Larsson & Pyddoke 22</i> (S)	Sri Lanka	aT085	HE649812	EU557702	AM939453	AM932941
<i>Hedyotis gardneri</i> Thwaites	Sri Lanka	<i>Fagerlind 5074</i> (S)	Sri Lanka	bS016	–	–	HE657680	HE681475
<i>Hedyotis korrorensis</i> (Valeton) Hosok.	Caroline Islands	<i>Fosberg 47697</i> (S)	?	aT083	HE649813	EU557703	AM939454	AM932942
<i>Hedyotis lawsoniae</i> Wight & Arn.	Sri Lanka	<i>Wambeek & Wanntorp 2996</i> (S)	Sri Lanka	aT098	HE649815	EU557704	AM939455	AM932943
<i>Hedyotis lessertiana</i> var. <i>lessertiana</i> Thwaites	Sri Lanka				EU543029	EU557705	AM939466	AM932944
<i>Hedyotis lessertiana</i> var. <i>marginata</i> Thwaites ex Trimen	Sri Lanka				EU543030	EU557706	AM939456	AM932945
<i>Hedyotis lindleyana</i> Hook. ex Wight & Arn.	Temp. and Trop. Asia	<i>K. Deguchi & al. 7859</i> (A)	Japan	cB023	HE649816	HE657573	HE657682	HE681477
<i>Hedyotis macrostegia</i> Stapf	Borneo				AF002767	–	AM942768	–
<i>Hedyotis marginata</i> (Thwaites ex Trimen) Alston	Sri Lanka	<i>Suman Neupane 72</i> (PDA)	Sri Lanka		HE649817	–	HE657683	HE681478
<i>Hedyotis megalantha</i> Merr.	Marianas				–	–	AM939457	AM932946
<i>Hedyotis membranacea</i> Thwaites	Indian subc.	<i>Suman Neupane 78</i> (PDA)	Sri Lanka		HE649818	–	HE657684	HE681479
<i>Hedyotis minutopuberula</i> Merr. & F.P. Metcalf	China	<i>Tim Motley 3219</i> (ODU)	China		HE649819	HE657574	HE657685	–
<i>Hedyotis nana</i> Merr. & L.M. Perry	New Guinea	<i>W. Vink 16290</i> (A)	New Guinea	cA094	HE649820	HE657575	HE657686	HE681480
<i>Hedyotis nodulosa</i> Arn.	Sri Lanka	<i>Bremer & Bremer 1012</i> (S)	Sri Lanka	bS026	HE649821	HE657576	HE657687	HE681481
<i>Hedyotis novoguineensis</i> Merr. & L.M. Perry	New Guinea, Australia	<i>M.J.S. Sands 2577</i> (A)	New Guinea	cA093	HE649822	HE657577	HE657688	HE681482
<i>Hedyotis obliquinervis</i> Merrill	China, Vietnam	<i>Razafimandimbison & al. 729</i> (S)	Vietnam	bZ009	HE649836	HE657588	HE657701	HE681494
<i>Hedyotis obscura</i> Thwaites	Sri Lanka	<i>Fagerlind 2733</i> (S)	Sri Lanka	bS029	–	–	HE657689	HE681483
<i>Hedyotis ovata</i> Thunb. ex Maxim.	China, Vietnam	<i>L. Averyanov & al. VH048</i> (MO)			–	–	HE657690	–
<i>Hedyotis pachycarpa</i> Ridl.	Indochina to Pen. Malaysia	<i>Razafimandimbison & al. 735</i> (S)	Vietnam	bZ011	HE649837	HE657589	HE657702	HE681495
<i>Hedyotis pahompokae</i> Fukuoka	Thailand	<i>Iwatsuki & al. 9562</i> (AAU)	Thailand	bS042	HE649823	–	HE657691	HE681484
<i>Hedyotis parryi</i> Hance	China, Trop. Asia	<i>C.O. Levine 1175</i> (A)	China	cB057	HE649824	HE657578	HE657692	HE681485
<i>Hedyotis philippensis</i> (Willd. ex Spreng.) Merr. ex C.B. Rob.	China, Trop. Asia	<i>A.C. Church & al. 1369</i> (A)	Indonesia	cB043	HE649825	HE657579	–	–
<i>Hedyotis pitardiana</i> Craib.	Thailand	<i>K. Kanulainen & al. 005</i> (S)	Vietnam	bZ023	HE649843	HE657595	HE657708	HE681501
<i>Hedyotis pulchella</i> Stapf	Borneo	<i>John H. Beaman 8909</i> (L)	Malaysia (Sabah)	bZ029	HE649826	HE657580	HE657693	HE681486
<i>Hedyotis purpurascens</i> Hook. f.	India	<i>Klackenberg & Lundin 546</i> (S)	India	cC032	HE649827	HE657581	HE657694	HE681487

Table S1. Continued.

Taxon	Taxon distribution	DNA voucher	Area of collection	Lab. Ident.	<i>rps16</i>	<i>petD</i>	ITS	ETS
<i>Hedyotis quinquinervia</i> Thwaites	Sri Lanka	<i>Bremer & al. 163</i> (S)	Sri Lanka	aT097	HE649828	EU557707	AM939458	AM932947
<i>Hedyotis rhinophylla</i> Thwaites ex Trimen	Sri Lanka	<i>Fagerlind 5082</i> (S)	Sri Lanka	aT090	HE649829	EU557708	AM939459	AM932948
<i>Hedyotis rigida</i> (Blume) Walp.	China, Trop. Asia, Australia	<i>John H. Beaman 10320</i> (MO)	Malaysia (Sabah)	bZ042	HE649830	HE657582	HE657695	HE681488
<i>Hedyotis rivalis</i> Ridl.	Pen. Malaysia	<i>Nooteboom s.n. 1990</i> (L)	Malaysia	bZ035	HE649831	HE657583	HE657696	HE681489
<i>Hedyotis scandens</i> Roxb.	China, Trop. Asia	<i>Gaoligong Shan Biodiversity Survey 25571</i> (MO)	China	cA052	HE649832	HE657584	HE657697	HE681490
<i>Hedyotis schlechteri</i> Merr. & L.M. Perry	New Guinea	<i>M.J. S. Sands & al. 1937</i> (A)	New Guinea	cA092	HE649833	HE657585	HE657698	HE681491
<i>Hedyotis shenzhenensis</i> Tao Chen	China				–	JF700101	JF699951	–
<i>Hedyotis shiuyingiae</i> Tao Chen	China	<i>N.H. Li 204</i> (A)	China	cB018	HE649834	HE657586	HE657699	HE681492
<i>Hedyotis</i> sp.		<i>Averyanov & al. VH2844</i> (MO)	Vietnam	cA050	HE649878	HE657626	HE657741	HE681537
<i>Hedyotis</i> sp.		<i>K. Kanulainen & al. 012</i> (S)	Vietnam	bZ024	HE649844	HE657596	HE657709	HE681502
<i>Hedyotis</i> sp.		<i>K. Kanulainen & al. 002</i> (S)	Vietnam	bZ022	HE649842	HE657594	HE657707	HE681500
<i>Hedyotis</i> sp.		<i>Razafimandimbison & al. 795</i> (S)	Vietnam	bZ021	HE649841	HE657593	HE657706	HE681499
<i>Hedyotis</i> sp.		<i>Razafimandimbison & al. 785</i> (S)	Vietnam	bZ020	HE649840	HE657592	HE657705	HE681498
<i>Hedyotis</i> sp.		<i>Razafimandimbison & al. 760</i> (S)	Vietnam	bZ018	HE649839	HE657591	HE657704	HE681497
<i>Hedyotis</i> sp.		<i>SKP 946</i> (ODU)	New Guinea		HE649848	HE657600	HE657712	HE681505
<i>Hedyotis</i> sp.		<i>K. Kanulainen & al. 045</i> (S)	Vietnam	bZ025	HE649845	HE657597	HE657710	HE681503
<i>Hedyotis</i> sp.		<i>Razafimandimbison & al. 745</i> (S)	Vietnam	bZ013	HE649838	HE657590	HE657703	HE681496
<i>Hedyotis</i> sp.		<i>Li Heng 10588</i> (GH)	China	cB011	HE649797	HE657561	HE657667	HE681460
<i>Hedyotis stylosa</i> R. Br. ex G. Don	India	<i>Klackenberg & Lundin 490</i> (S)	India	bS034	HE649847	HE657599	HE657711	–
<i>Hedyotis swertiooides</i> Hook. f.	India	<i>Klackenberg & Lundin 3</i> (S)	India	aT094	EU543031	EU557709	AM939460	HE681506
<i>Hedyotis thwaitesii</i> Hook. f.	Indian subc.	<i>Suman Neupane 79</i> (PDA)			–	–	HE657713	–
<i>Hedyotis trichoclada</i> Merr. & L.M. Perry	New Guinea	<i>R. Schodde 2025</i> (A)	New Guinea	cB029	HE649849	HE657601	HE657714	HE681507
<i>Hedyotis tridentata</i> Ridsdale	Sri Lanka	<i>Fagerlind 3365</i> (S)	Sri Lanka	bS036	–	–	HE657715	HE681508
<i>Hedyotis trimenii</i> Deb & R.M. Dutta	Sri Lanka	<i>Bremer & Bremer 1027</i> (S)	Sri Lanka	bS037	HE649850	HE657602	HE657716	HE681509
<i>Hedyotis uncinella</i> Hook. & Arn.	Temp. and Trop. Asia	<i>Huang & al. 531</i> (MO)	Taiwan	bZ038	HE649851	HE657603	HE657717	HE681510
<i>Hedyotis valetoniana</i> Merr. & L.M. Perry	New Guinea	<i>R.J. Johns 9869A</i> (L)	New Guinea	bZ030	HE649852	HE657604	HE657718	HE681511
<i>Hedyotis vestita</i> R. Br. ex G. Don	Temp. and Trop. Asia, Australia	<i>Juan 424</i> (S)	India	bS040	HE649853	HE657605	HE657719	HE681512
<i>Hedyotis xinyiensis</i> X. Guo & R.J. Wang	China				–	JF700120	JF699970	–
<i>Hedyotis yangchunensis</i> W.C. Ko & Zhang, J.S.	China				–	JF700122	JF699972	–
<i>Hedythyrus spermacocinus</i> (K.Schum.) Bremek.	Africa				EU543032	EU557711	AM939461	AM932950

Table S1. Continued.

Taxon	Taxon distribution	DNA voucher	Area of collection	Lab. Ident.	<i>rps16</i>	<i>petD</i>	ITS	ETS
<i>Houstonia caerulea</i> L.	N. America				AF333379	EU557713	AM939464	–
<i>Houstonia longifolia</i> Gaertn.	N. America				AF002766	EU567462	AM939465	–
<i>Kadua affinis</i> Cham. & Schldl.	Hawaii				EU642523	–	AM942769	–
<i>Kadua fluviatilis</i> C.N. Forbes	Hawaii				EU642527	–	AM942773	–
<i>Kadua parvula</i> A. Gray	Hawaii				AF333375	EU557720	AM939473	
<i>Kohautia coccinea</i> Royle	Africa, Temp. and Trop. Asia				EU543037	EU557723	AM939476	AM932959
<i>Kohautia cynanchica</i> DC.	Africa				EU543038	EU557724	AM939477	AM932960
<i>Lelya osteocarpa</i> Bremek.	Africa				–	EU557729	AM939485	–
<i>Lelya prostrata</i> W.H. Lewis	Africa	<i>W.H. Lewis 6119</i> (GH)	Zimbabwe	cB039	HE649854	HE657606	–	HE681513
<i>Leptopetalum foetidum</i> (G. Forst.) ined.	Pacific	<i>F.R. Fosberg 59615</i> (L)	Marianas Islands	cB044	HE649855	–	–	HE681514
<i>Leptopetalum grayi</i> (Hook. f.) Hatus.	Japan	<i>B. Bremer 47001</i> (S)	Japan	bZ041	HE649856	HE657607	HE657720	HE681515
<i>Metabolos decipiens</i> (Thwaites) Ridsdale	Sri Lanka	<i>Henni & Hans-Erik Wanntorp 2778</i> (S)	Sri Lanka	cC016	HE649858	HE657609	HE657721	HE681516
<i>Metabolos decipiens</i> (Thwaites) Ridsdale	–	<i>Larsson & Pyddoke 14</i> (S)	Sri Lanka	cC017	HE649857	HE657608	HE657722	HE681517
<i>Metabolos rugosus</i> Blume	Malesia	<i>Nyman s.n. 1898</i> (UPS)	Indonesia (Java)	bS007	HE649859	–	HE657723	HE681518
<i>Mitrasacmopsis quadrivalvis</i> Jovet	Africa				EU543045	EU557733	AM939490	AM932970
<i>Neanotis calycina</i> (Wall. ex Hook. f.) W.H. Lewis	China, Trop. Asia	<i>Suman Neupane 13</i> (ODU)	Nepal		HE649860	HE657610	HE657724	HE681519
<i>Neanotis formosana</i> (Hayata) Lewis	Taiwan	<i>C.I. Peng 17402</i> (S)	Taiwan	cC026	–	HE657612	HE657725	HE681521
<i>Neanotis gracilis</i> (Hook. f.) W.H. Lewis	Indian subc.	<i>Suman Neupane 89</i> (ODU)	Nepal		HE649861	HE657611	–	HE681520
<i>Neanotis hirsuta</i> (L. f.) W.H. Lewis	Temp. and Trop. Asia	<i>Polunin & al. 5640</i> (UPS)	Nepal	bS009	HE649846	HE657598	–	HE681504
<i>Neanotis indica</i> (DC.) W.H. Lewis	Trop. Asia	<i>Klackenberg & Lundin 387</i> (S)	India	cC030	HE649862	HE657613	HE657726	–
<i>Neanotis monosperma</i> (Wight & Arn.) W.H. Lewis	Indian subc.	<i>Larsson & Pyddoke 15</i> (S)	Sri Lanka	cC027	HE649863	HE657614	HE657727	HE681522
<i>Neanotis nummularia</i> (Arn.) W.H. Lewis	Sri Lanka	<i>Larsson & Pyddoke 16</i> (S)	Sri Lanka	cC028	HE649864	HE657615	HE657728	HE681523
<i>Neanotis nummulariformis</i> (Arn.) W.H. Lewis	Sri Lanka	<i>F. Fagerlind 4286</i> (S)	Sri Lanka	cC029	–	–	–	HE681524
<i>Neanotis wightiana</i> (Wall. ex Wight & Arn.) W.H. Lewis	China, Trop. Asia	<i>Hooker & Thomson s.n.</i> (UPS)	India	bS011	–	–	–	HE681525
<i>Oldenlandia affinis</i> (Roem. & Schult.) DC.	Africa, Trop. Asia				EU543046	EU557734	AM939492	AM932971
<i>Oldenlandia affinis</i> (Roem. & Schult.) DC.	Africa, Trop. Asia	<i>Kai Larsen & al. 44192</i> (MO)	Thailand	bZ039	HE649814	HE657572	HE657681	HE681476
<i>Oldenlandia angolensis</i> K. Schum.	Africa				EU543047	EU557735	AM939493	AM932972
<i>Oldenlandia angustifolia</i> (Cham. & Schldl.) Kuntze	Temp. and Trop. Asia	<i>Shiu Ying Hu 5401</i> (A)	China	cB014	HE649792	–	HE657662	HE681455
<i>Oldenlandia assimilis</i> (Tutcher) Chun	China	<i>Shiu Ying Hu 10795</i> (A)	China	cB055	HE649865	–	HE657729	–
<i>Oldenlandia assimilis</i> (Tutcher) Chun	–				–	JF700051	JF699902	–
<i>Oldenlandia auricularia</i> (L.) K. Schum.	Temp. and Trop. Asia	<i>Henni & Hans-Erik Wanntorp 2733</i> (S)	Sri Lanka	cC020	HE649867	HE657617	HE657731	HE681527

Table S1. Continued.

Taxon	Taxon distribution	DNA voucher	Area of collection	Lab. Ident.	<i>rps16</i>	<i>petD</i>	ITS	ETS
<i>Oldenlandia auricularia</i> (L.) K. Schum.	–	<i>Hu & But 21076</i> (A)	China	cB013	HE649866	HE657616	HE657730	HE681526
<i>Oldenlandia auricularia</i> (L.) K. Schum.	–	<i>A.C. Smith 9599</i> (S)	Fiji	cC021	HE649868	HE657618	HE657732	HE681528
<i>Oldenlandia benguetensis</i> Elmer	Malesia	<i>H.H. Bartlett 13237</i> (A)	Philippines	cB026	HE649869	–	HE657733	HE681529
<i>Oldenlandia biflora</i> L.	Temp. and Trop. Asia, Australia, Pacific				–	JF700057	JF699908	–
<i>Oldenlandia biflora</i> L.	–				EU567459	EU557736	AM939494	AM932973
<i>Oldenlandia bodinieri</i> (H. Lév.) Chun	China	<i>Shiu Ying Hu 13816</i> (A)	China	cB012	HE649870	HE657619	HE657734	HE681530
<i>Oldenlandia brachypoda</i> DC.	China, Indian subc., Trop. Asia	<i>Suman Neupane 88</i> (ODU)	Nepal		HE649871	HE657620	HE657735	–
<i>Oldenlandia bracteosa</i> (Hance) Kuntze	China	<i>Shiu Ying Hu 10684</i> (A)	China	cB004	HE649872	HE657621	HE657736	HE681531
<i>Oldenlandia capensis</i> L. f.	Africa				EU543048	EU557737	AM939496	AM932974
<i>Oldenlandia chereevensis</i> Pierre ex Pit.	China, Indochina	<i>K. Larssen & al. 41491</i> (MO)	Thailand	cA054	HE649873	HE657622	HE657737	HE681532
<i>Oldenlandia chrysotricha</i> (Palib.) Chun	China, Japan	<i>Chow & Wan 79024</i> (UPS)	China	bR099	HE649875	HE657624	HE657739	HE681534
<i>Oldenlandia chrysotricha</i> (Palib.) Chun	–	<i>Nie Min-xiang 92393</i> (UPS)	China	bR100	HE649874	HE657623	HE657738	HE681533
<i>Oldenlandia chrysotricha</i> (Palib.) Chun	–	<i>Lin Qinzong 2004180</i> (MO)	China	bZ040	HE649876	HE657625	HE657740	HE681535
<i>Oldenlandia consanguinea</i> (Hance) Kuntze	China				–	JF700072	JF699924	–
<i>Oldenlandia consanguinea</i> (Hance) Kuntze	–	<i>Shiu Ying Hu 10821</i> (S)	China	aT079	HE649877	EU557701	AM939450	HE681536
<i>Oldenlandia contracta</i> Pierre ex Pit.	Laos, Vietnam	<i>Razafimandimbison & al. 716</i> (S)	Vietnam	bZ008	HE649835	HE657587	HE657700	HE681493
<i>Oldenlandia corymbosa</i> L.	Africa, Trop. Asia				EU543050	EU557739	AM939502	AM932979
<i>Oldenlandia cryptantha</i> (Dunn) Chun	China	<i>Tim Motley 3202</i> (ODU)	China		HE649879	HE657627	HE657742	HE681538
<i>Oldenlandia densa</i> ined.	Africa				EU543061	EU557751	AM939503	AM932980
<i>Oldenlandia diffusa</i> (Willd.) Roxb.	Temp. and Trop. Asia	<i>Tan Ce-ming 95670</i> (UPS)	China	bS003	HE649880	HE657628	HE657743	HE681539
<i>Oldenlandia duemmeri</i> S. Moore	Africa	<i>W.H. Lewis 6018</i> (GH)	Uganda	cB041	HE649881	HE657629	HE657744	HE681540
<i>Oldenlandia echinulosa</i> K. Schum.	Africa				EU543051	EU557740	AM939504	AM932981
<i>Oldenlandia erecta</i> (Manilal & Sivar.) R.R. Mill	Indian subc. and Java	<i>Li Heng 11298</i> (A)	China	cB024	HE649897	HE657643	HE657758	HE681554
<i>Oldenlandia erecta</i> (Manilal & Sivar.) R.R. Mill	–	<i>Suman Neupane 2</i> (ODU)	Nepal		HE649882	HE657630	HE657745	HE681541
<i>Oldenlandia fastigiata</i> Bremek.	Africa				EU543052	EU557742	AM939506	AM932983
<i>Oldenlandia galioides</i> (F. Muell.) F. Muell.	New Guinea, Australia, SW. Pacific				EU543053	EU557743	AM939507	–
<i>Oldenlandia geophila</i> Bremek.	Africa				EU543054	EU557744	AM939508	–
<i>Oldenlandia goreensis</i> (DC.) Summerh.	Africa				EU543055	EU557745	AM939510	AM932985
<i>Oldenlandia gracilipes</i> Craib	Thailand	<i>J.F. Maxwell 01-591</i> (L)	Thailand	cA061	HE649883	–	HE657746	HE681542
<i>Oldenlandia hainanensis</i> Chun	China	<i>F.C. How 72268</i> (A)	China	cB028	HE649884	HE657631	HE657747	HE681543

Table S1. Continued.

Taxon	Taxon distribution	DNA voucher	Area of collection	Lab. Ident.	<i>rps16</i>	<i>petD</i>	ITS	ETS
<i>Oldenlandia hedyotideae</i> (DC.) Hand.-Mazz.	Temp. and Trop. Asia	<i>Kuang-Yuh Wang 156</i> (A)	Taiwan	cB006	HE649885	HE657632	HE657748	HE681544
<i>Oldenlandia herbacea</i> (L.) Roxb.	Africa, Indian subc.	<i>Hu & But 22491</i> (A)	China	cB058	HE649886	HE657633	HE657749	–
<i>Oldenlandia herbacea</i> (L.) Roxb.	–				EU543057	EU557747	AM939552	AM932988
<i>Oldenlandia lancea</i> (Thunb. ex Maxim.) Kuntze	China	<i>Xiao Bai-Zhong 3467</i> (A)	China	cB003	HE649887	HE657634	HE657750	HE681545
<i>Oldenlandia lancifolia</i> (Schumach.) DC.	Africa				EU543058		AM939512	AM932990
<i>Oldenlandia lapeyrousii</i> (DC.) Terrell & H. Rob.	New Guinea, Australia, SW. Pacific	<i>W. Takeuchi 4727</i> (A)	New Guinea	cA097	HE649888	HE657635	HE657751	HE681546
<i>Oldenlandia lineata</i> (Roxb.) Kuntze	China, Indian subc.	<i>Polunin & al. 564</i> (UPS)	Nepal	bS006	HE649889	HE657636	HE657752	HE681547
<i>Oldenlandia lineata</i> (Roxb.) Kuntze	–	<i>M. Suzuki & al. 9470098</i> (A)	Nepal	cB010	HE649890	HE657637	HE657753	HE681548
<i>Oldenlandia mellii</i> (Tutcher) Chun	China	<i>Luo Lin-Bo 0785</i> (MO)	China	bZ036	HE649891	HE657638	HE657754	HE681549
<i>Oldenlandia microtheca</i> (Cham. & Schldtl.) DC.	Mexico				EU543059	EU557749	AM939513	AM932991
<i>Oldenlandia mitrasacmoides</i> (F. Muell.) F. Muell.	Australia				–	EU557750	AM939515	AM932992
<i>Oldenlandia nematocaulis</i> Bremek.	Africa				EU543060	–	AM939517	AM932994
<i>Oldenlandia nervosa</i> Hiern	Africa				AF333382	–	AM939518	AM932995
<i>Oldenlandia nutans</i> Valetton	New Guinea	<i>Bergman s.n. 1949</i> (S)	New Guinea	bS027	HE649892	HE657639	–	HE681550
<i>Oldenlandia ovatifolia</i> (Cav.) DC.	China, Trop. Asia	<i>K. Larssen & al. 43736</i> (MO)	Thailand	bZ044	HE649893	HE657640	HE657755	HE681551
<i>Oldenlandia paridifolia</i> (Dunn) Chun	China	<i>Tim Motley 3167</i> (ODU)	China		HE649895	HE657641	HE657757	HE681553
<i>Oldenlandia paridifolia</i> (Dunn) Chun	–	<i>Tim Motley 3165</i> (ODU)	China		HE649894	–	HE657756	HE681552
<i>Oldenlandia pinifolia</i> (Wall. ex G. Don) Kuntze	Temp. and Trop. Asia	<i>Rahmat Si Toroos 2734</i> (S)	Indonesia	bS031	HE649896	HE657642	–	–
<i>Oldenlandia prostrata</i> (Blume) Kuntze	China, Trop. Asia	<i>Nat. Geogr. Society Hainan Expedition 39</i> (MO)	China	bZ043	HE649898	HE657644	HE657759	HE681555
<i>Oldenlandia pterita</i> (Blume) Miq.	China, Trop. Asia				–	JF700093	JF699943	–
<i>Oldenlandia pubescens</i> Valetton	New Guinea	<i>W. Takeuchi & al. 13326</i> (A)	New Guinea	cB042	HE649899	HE657645	HE657760	HE681556
<i>Oldenlandia pulcherrima</i> (Dunn) Chun	China				–	JF700096	JF699946	–
<i>Oldenlandia rosulata</i> K. Schum.	Africa				EU543043	EU567465	AM939519	–
<i>Oldenlandia rupicola</i> (Sond.) Kuntze	Africa	<i>B. Bremer & K. Bremer 3807</i> (UPS)	S. Africa	cC034	HE649900	HE657646	HE657762	–
<i>Oldenlandia salzmannii</i> (DC.) Benth. & Hook. f. ex B.D. Jacks.	S. America				AY764294	EU557752	AM939520	AM932996
<i>Oldenlandia scabra</i> (Wall. ex Kurz) Kuntze	Trop. Asia	<i>E.F. Anderson 5559</i> (A)	Thailand	cB025	–	–	HE657761	HE681557
<i>Oldenlandia stocksii</i> Hook. f.	India	<i>Klackenberg & Lundin 326</i> (S)	India	cC022	HE649901	–	HE657763	HE681558
<i>Oldenlandia stricta</i> L.	Indian subc.	<i>F. Fagerlind 3027</i> (S)	Sri Lanka	cC023	HE649902	HE657647	HE657764	HE681559
<i>Oldenlandia taborensis</i> Bremek.	Africa				–	EU557753	AM939522	–
<i>Oldenlandia tenelliflora</i> (Blume) Kuntze	Temp. and Trop. Asia, Australia	<i>Liu Zhengyu 21840</i> (MO)	China	cA089	HE649903	HE657648	HE657765	HE681560

Table S1. List of investigated taxa and accession numbers for sequences used in the analyses. DNA voucher information is given for new sequences. The generic names *Oldenlandia* and *Hedyotis* are used following Govaerts & al. (2011).

Taxon	Taxon distribution	DNA voucher	Area of collection	Lab. Ident.	<i>rps16</i>	<i>petD</i>	ITS	ETS
<i>Oldenlandia tenelliflora</i> (Blume) Kuntze	–				EU543062	EU557710	AM939451	AM932949
<i>Oldenlandia tenuipes</i> (Hemsl. ex F.B. Forbes & Hemsl.) Kuntze	China				–	JF700110	JF699960	–
<i>Oldenlandia tenuipes</i> (Hemsl. ex F.B. Forbes & Hemsl.) Kuntze	–	<i>Hu & Kong 017</i> (MO)	China	bZ037	HE649904	HE657649	HE657766	HE681561
<i>Oldenlandia tenuis</i> K. Schum.	S. America				AY764293	EU557754	AM939523	–
<i>Oldenlandia ternata</i> Pierre ex Pit.	Indo-China	<i>M. Greijmans 103</i> (L)	Thailand	bZ027	HE649905	HE657650	HE657767	HE681562
<i>Oldenlandia tetragonalis</i> (Korth.) Merr.	China, Trop. Asia	<i>J.F. Maxwell 84-473</i> (A)	Thailand	cB052	HE649906	HE657651	HE657768	HE681563
<i>Oldenlandia trinervia</i> Retz.	China, Trop. Asia	<i>F. Fagerlind 4338</i> (S)	Sri Lanka	cC024	HE649907	HE657652	HE657769	HE681564
<i>Oldenlandia umbellata</i> L.	China, Trop. Asia	<i>F. Fagerlind 3320</i> (S)	Sri Lanka	cC025	HE649806	HE657569	HE657674	HE681469
<i>Oldenlandia umbellata</i> L.	–	<i>Suman Neupane 84</i> (ODU)	India		HE649908	HE657653	HE657770	HE681565
<i>Oldenlandia uniflora</i> L.	N. and S. America				AY764295	EU557755	AM939524	–
<i>Oldenlandia vachellii</i> (Hook. & Arn.) Kuntze	China	<i>T.W. Lau 057</i> (A)	China	cB007	HE649909	HE657654	HE657771	HE681566
<i>Oldenlandia verticillata</i> L.	Temp. and Trop. Asia, Pacific	<i>Suman Neupane 5</i> (ODU)	Nepal		HE649910	HE657655	HE657772	HE681567
<i>Oldenlandia wauensis</i> Schweinf. ex Hiern	Africa				EU543076	EU557774	AM939548	AM933018
<i>Oldenlandia wiedemannii</i> K. Schum.	Africa				EU543063	EU557756	AM939525	AM933001
<i>Paraknoxia parviflora</i> (Stapf ex Verdc.) Verdc. ex Bremek.	Africa				EU543064	EU557757	–	–
<i>Pentanopsis fragrans</i> Rendle	Africa				EU543065	EU557758	AM939526	AM933002
<i>Pentodon pentandrus</i> (Schumach. & Thonn.) Vatke	Africa				EU543066	EU557759	AM939528	AM933003
<i>Pleiocraterium verticillare</i> (Wall. ex Wight & Arn.) Bremek.	India	<i>Bremer & al. 37</i> (S)	Sri Lanka	bS039	HE649911	HE657656	HE657773	HE681568
<i>Spermacoce hispida</i> L.	Temp. and Trop. Asia				EU543073	EU557768	AM939540	AM933017
<i>Stenaria nigricans</i> (Lam.) Terrell	N. and S. America				AF333373	EU557772	AM939546	–
<i>Synaptantha tillaeacea</i> (F. Muell.) Hook. f.	Australia				EU543075	EU557773	–	–