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Phylogenetic studies in the *Hoya* group (*Apocynaceae*, *Marsdenieae*): the position of *Anatropanthus* and *Oreosparte*

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Appendix 1

List of vouchers for newly published sequences and GenBank accession numbers for all sequences used in the analyses.

Tribe or subfamily. Taxon, origin, voucher (herbarium), ETS, ITS, *psbA-trnH*, *matK*, *trnT-trnL* spacer, *trnL* intron & *trnL-trnF* spacer.

ASCLEPIADEAE. *Araujia sericifera* Brot, –, –, –, AJ428792, AJ428793 & AJ428794; *Cynanchum ellipticum* (Harv.) R. A. Dyer, –, –, –, AJ290847, AJ290846 & AJ290845; *Gomphocarpus physocarpus* E. Mey., –, –, –, AJ290877, AJ290876 & AJ290875; *Metastelma schaffneri* A. Gray, –, –, –, AJ410214, AJ410215 & AJ410216; *Microloba tenuifolium* K. Schum, –, –, –, AJ410220, AJ410221 & AJ410222; *Oxystelma bornouense* R. Br., –, –, –, AJ290883, AJ290882 & AJ290881; *Pergularia daemia* (Forsk.) Chiov., –, –, –, AJ290891, AJ290892 & AJ290893; *Schubertia grandiflora* Mart. & Zucc., –, –, –, AJ428825, AJ428826 & AJ428827; *Vincetoxicum flexuosum* (R. Br.) Kuntze, Singapore, Rodda & Lai MR432 (SING), –, –, MF198018, MF198021; *Tylophora heterophylla* A. Rich., –, –, –, AJ410259, AJ410260 & AJ410261; **CEROPEGIEAE.** *Anisotoma cordifolia* Fenzl, –, –, –, AJ410016, AJ410017 & AJ410018; *Riocreuxia burchellii* K. Schum, –, –, –, AJ488306, AJ488307 & AJ488308; *Boucerosia frerei* (Rowley) Meve & Liede, –, –, –, AJ488324, AJ488325 & AJ488326; *Brachystelma pygmaeum* subsp. *flavidum* R. A. Dyer, –, –, –, AJ410031, AJ410032 & AJ410033; *Caralluma arachnoidea* (P. R. O. Bally) M. G. Gilbert, –, –, –, AJ410037, AJ410038 & AJ410039; *Ceropegia bulbosa* Roxb., –, –, –, AJ488342, AJ488343 & AJ488344; *Ceropegia distincta* N. E. Br., –, –, –, AJ488345, AJ488346 & AJ488347; *Apteranthes europaea* (Gussone) Plowes var. *europaea*, –, –, –, AJ488312, AJ488313 & AJ488314; *Ceropegia juncea* Roxb., –, –, –, AJ428798, AJ428799 & AJ428800; *Conomitra linearis* Fenzl, –, –, –, AJ574823, AJ574825 & AJ574824; *Ceropegia striata* Meve & Masinde, –, –, –, AJ410043, AJ410044 & AJ410045; *Desmidorchis flavus* (N. E. Br.) Meve & Liede, –, –, –, AJ488357, AJ488358 & AJ488359; *Echidnopsis repens* R. A. Dyer & Verdoorn, –, –, –, AJ488381, AJ488382 & AJ488383; *Leptadenia arborea* (Forssk.) Schweinf., –, –, –, AJ574832, AJ574833 & AJ574834; *Leptadenia hastata* Decne., –, –, –, AJ410055, AJ410056 & AJ410057; *Neoschumannia cardinea* (S. Moore) Meve, –, –, –, AJ410049, AJ410050 & AJ410051; *Neoschumannia kamerunensis* Schltr., –, –, –, AJ410052, AJ410053 & AJ410054; *Orthanthera albida* Schinz, –, –, –, AJ410058, AJ410059 & AJ410060; *Orthanthera jasminiflora* (Decne.) N. E. Br. ex Schinz, –, –, –, AJ410064, AJ410065 & AJ410066; *Quaqua incarnata* (L. f.) Bruyns subsp. *incarnata*, –, –, –, AJ488453, AJ488454 & AJ488455; *Riocreuxia torulosa* Decne., –, –, –, AJ574841, AJ574842 & AJ574843; *Sisyranthus compactus* N. E. Br., –, –, –, AJ410067, AJ410068 & AJ410069; *Stapelia rufa* Masson, –, –, –, AJ488465, AJ488466 & AJ488467; *Sisyranthus trichostomus* Schltr., –, –, –, AJ574846, AJ574845 & AJ574844; *Sisyranthus virgatus* E. Mey., –, –, –, AJ574847, AJ574848 & AJ574849; **EUSTEGIEAE.** *Eustegia minuta* (L. f.) Schult., –, –, –, AJ410205, AJ410206 & AJ410207; **FOCKEAEAE.** *Cibirhiza dhofarensis* Bruyns, –, –, –, AJ431737, AJ431738 & AJ431739; *Fockea edulis* K. Schum, –, –, –, AJ431740, AJ431741 & AJ431742; *Fockea multiflora* K. Schum., –, –, –, AJ431743, AJ431744 & AJ431745; **MARSDENIEAE.** *Cionura erecta* (L.) Griseb., –, –, –, AJ410172, AJ410173 & AJ410174; *Dischidia acutifolia* Maingay ex Hook. f., Singapore, Ex. Hort. Singapore Botanic Gardens, Rodda MR898 (SING), MF198142, MF198094, MF198060, MF198195, MF197982, MF198027; *Dischidia latifolia* (Bl.) Decne., Malaysia, Ex. Hort. Malaysia, Sabah, Kipandi Farm, Lamb AL2367/2012 (SAN), MF198143, MF198095, MF198061, MF198196, MF197983, MF198028; *Dischidia antennifera* Becc., Malaysia, Ex. Hort. Singapore Botanic Gardens, Rodda MR236 (SING), MF198144, MF198096, MF198062, MF198197, MF197984, MF198029; *Dischidia astephana* Scort. ex King & Gamble, Wanntorp 562 (S), HE794212, DQ334459, HQ327682, HQ327603, HE794723, DQ334534; *Dischidia hirsuta* Decne., Wanntorp 563 (S), HE794213, DQ334452, HQ327669, HQ327590, HE794724, DQ334531; *Dischidia major* (Vahl) Merr., Singapore, Rodda MR318 (SING), MF198147, MF198097, MF198063, MF198198, MF197985, MF198030; *Dischidia milnei* Hemsl., Papua New Guinea, Ex. Hort. Singapore Botanic Gardens, Rodda MR12-H211 (SING), MF198148, MF198098, MF198064, MF198199, MF197986, MF198031; *Dischidia nummularia* R. Br., Singapore, Rodda MR313 (SING), MF198149, MF198099, MF198065, MF198200, MF197987, MF198032; *Dischidiopsis parasita* (Blanco) Merr., Philippines, Ex. Hort. Singapore, Gardens by the Bay, Rodda MR510 (SING), MF198150, MF198100, MF198066, MF198201, MF197988, MF198033; *Dischidia rimicola* Kerr, Laos, Ex. Hort. Singapore Botanic Gardens, Rodda MR543 (SING), MF198151, MF198101, MF198067, MF198202, MF197989, MF198034; *Dischidia tomentella* Ridl., Thailand, Ex. Hort. Singapore Botanic Gardens, Rodda MR690 (SING), MF198152, MF198102, MF198068, MF198203, MF197990, MF198035; *Dischidia vidalii* Becc., Sin. Loc., Ex. Hort. Singapore Botanic Gardens, Rodda MR451 (SING),

MF198153, MF198103, MF198069, MF198204, MF197991, MF198036; *Gymnema inodorum* Decne., –, –, –, AJ431749, AJ431750 & AJ431751; *Gymnema sylvestre* (Retz.) Schult., –, –, –, AJ402118, AJ402137 & AJ402142; *Gongronema wallichii* Decne., –, –, –, AJ431746, AJ431747 & AJ431748; *Hoya burmanica* Rolfe, Myanmar, Ex. Hort. Turin Botanic Garden, Italy, Rodda 2009.1h (K, SING, TO), MF198154, MF198104, MF198070, MF198205, MF197993, MF198037; *Hoya carnosa* (L. f.) R. Br., HE794320, DQ334460, HQ327665, HQ327586, HE794837, DQ334535; *Hoya caudata* Hook. f., Singapore, Ex. Hort. Singapore Botanic Gardens, Rodda MR242 (SING), MF198156, MF198105, MF198071, MF198206, MF197995, MF198038; *Hoya chinghungensis* (Tsiang & P. T. Li) M. G. Gilbert, P. T. Li & W. D. Stevens, Thailand, Ex. Hort. Singapore Botanic Gardens, Rodda MR1759 (SING), MF198157, MF198106, MF198072, MF198207, MF197996, MF198039; *Hoya* cf. *ciliata* Teijsm. & Binn., HE794224, DQ334512, HQ327616, HQ327537, HE794734, DQ334562; *Hoya collina* Schltr., Papua New Guinea, Liddle IML1095 (BRI), HE794284, HE794388, HE794486, MF198208, HE794797, MF350511; *Hoya corymbosa* Rodda & Simonsson, Malaysia, Ex. Hort. Malaysia, Sabah, Kipandi Butterfly Farm, Gokusing & al. AlI803/2009 (SAN), MF198160, JQ950745, JQ950747, JQ950746, MF197997, MF198022; *Hoya cumingiana* Decne., Philippines, Ex. Hort. Singapore Botanic Gardens, Rodda MR911 (SING), MF198161, MF198108, MF198073, MF198209, MF197998, MF198023; *Hoya curtisii* King & Gamble, Ex. Hort. Ex hort., 1998-3180, Uppsala Bot. Gard., Wanntorp 578 (S), HE794279, DQ334479, HQ327687, HQ327608, HE794792, MF350521; *Hoya edeni* King ex Hook. f., Ex. Hort., Wanntorp 579 (S), HE794216, DQ334476, HQ327661, HQ327582, HE794726, MF350512; *Hoya* sp. (sect. *Eriostemma*), Papua New Guinea, Liddle IML1705 (BRI), HE794229, HE794398, HE794493, MF198210, HE794739, MF350513; *Hoya hamiltoniorum* A. L. Lamb & al., Malaysia, Ex. Hort. Malaysia, Sabah, Kipandi Park, Gokusing & Lombika in Lamb 1814/2009 (SAN, SNP), MF198165, MF198112, MF198074, MF198211, MF197999, MF198040; *Hoya heuschkeliana* Kloppenb., Ex. Hort., Wanntorp 568 (S), HE794299, DQ334416, HQ327621, HQ327542, HE794814, MF350517; *Hoya ignorata* T. B. Tran & al., Thailand, Simonsson & Somadee NS10-004 (SING), MF198167, MF198138, MF198075, MF198212, MF198000, MF198041; *Hoya imperialis* Lindl., Malaysia, Ex. Hort. Singapore Botanic Gardens, Rodda MR340 (SING), MF198168, MF198114, MF198076, MF198213, MF198001, MF198042; *Hoya inflata* (P. I. Forst., Liddle & I. M. Liddle) L. Wanntorp & P. I. Forst., Papua New Guinea, Liddle IML1076 (BRI), HE794269, DQ334508, HQ327618, MF198214, HE794781, MF350514; *Hoya insularis* Rodda & S. Rahayu, Indonesia, Kalimantan, Cultivated in Thailand, Rodda s.n. (SING), MN931598, MN931599, MN931595, MN931596, MN931594, MN931597; *Hoya juhoneyeana* Simonsson & Rodda, Papua New Guinea, Simonsson Juhoneye & Juhoneye NS0016H (LAE, SING), MF198170, MF198116, MF198077, MF198215, MF198002, MF198043; *Hoya lambii* T. Green, Ex. Hort., Liddle IML1800 (BRI), HE794335, HE794415, HE794511, MF198216, HE794852, MF350515; *Hoya lanceolata* Wall. ex D. Don, Nepal, Ex. Hort. Singapore Botanic Gardens, Rodda MR1769 (SING), MF198172, MF198118, MF198078, MF198217, MF198003, MF198044; *Hoya lasiantha* (Korth. ex Blume) Miquel, Malaysia, Yap s.n. (SING), MF198173, MF198119, MF198079, MF198218, MF198004, MF198045; *Hoya manipurensis* Deb, Thailand, Ex. Hort. Singapore Botanic Gardens, Rodda MR693 (SING), MF198174, MF198120, MF198082, MF198219, MF198017, MF198046; *Hoya mariae* (Schltr.) L. Wanntorp & Meve, Philippines, Ex. Hort. Singapore Botanic Gardens, Rodda s.n. (SING), MF198175, MF198121, MF198085, MF198220, MF198007, MF198047; *Hoya neoeubudica* Guillaumin, Ex. Hort. Ex hort., RBG-Kew, Liv. Coll. 1983-4475, Chase 17126 (K), HE794359, HQ327516, HQ327657, HQ327578, HE794876, MF350516; *Hoya nicholsoniae* F. Muell., Papua New Guinea, Ex. Hort. Singapore Botanic Gardens, Rodda MR718 (SING), MF198177, MF198123, MF198080, MF198221, MF198005, MF198048; *Hoya omlorii* (Livsh. & Meve) L. Wanntorp & Meve, Malaysia, Ex. Hort. Singapore Botanic Gardens, Rodda MR304 (SING), MF198178, MF198124, MF198084, MF198222, MF198006, MF198056; *Hoya pallilimba* Kleijn & Donkelaar, Indonesia, Liddle IML1691 (BRI), HE794303, HE794442, HE794537, MF198223, HE794819, MF350518; *Hoya papaschonii* Rodda, Thailand, Ex. Hort. Ratchaburi Province, Ratchaburi, Thailand, Chamwong KEW2012-011 (SING), KJ881406, KJ881405, KJ881407, MF198224, KJ881408, MF198020; *Hoya serpens* Hook. f., Ex. Hort. Ex hort. RBG-Kew, Chase 17118 (K), HE794368, DQ334482, HQ327654, HQ327575, HE794885, MF350519; *Hoya spartioides* (Benth.) Kloppenb., Malaysia, Wanntorp 592 (S), HE794313, DQ334448, HQ327619, HQ327540, HE794830, MF350510; *Hoya telosmoides* Omlor, HE794240, DQ334486, HQ327671, HQ327592, HE794752, HQ327592; *Hoya thailandica* Thaitong, Thailand, Liddle IML1493 (BRI), HE794219, HE794466, HE794561, MF198225, HE794729, MF350520; *Hoya verticillata* (Vahl.) G. Don, Singapore, Ex. Hort. Singapore Botanic Gardens, Rodda MR323 (SING), MF198186, MF198132, MF198083, MF198227, MF198010, MF198050; *Jasminanthes maingayi* (Hook. f.) Rodda, Singapore, Rodda MR691 (SING), MF198139, MF198091, MF198057, MF198192, MF350522, MF198024; *Marsdenia coronata* Benth., Australia, P. I. Forster 28695 (BRI), –, –, –, –, MF198012, MF198019; *Marsdenia flavescens* A. Cunn., Australia, Forster 28686 (BRI), MF198140, MF198092, MF198058, MF198193, MF198011, MF198025; *Marsdenia gillespieae* Morillo, –, –, –, AJ431755, AJ431756 & AJ431757; *Marsdenia rostrata* R. Br., Australia, Booth 3080 (BRI), MF198141, MF198093, MF198059, MF198194, MF350523, MF198026; *Marsdenia rubicunda* (K. Schum.) N. E. Br., –, –, –, AJ574838, AJ574839 & AJ574840; *Marsdenia tenacissima* (Roxb.) Moon, –, –, –, AJ431758, AJ431759 & AJ431760; *Marsdenia verrucosa* Decne., –, –, –, AJ431761, AJ431762 & AJ431763; *Oreosparte celebica* Schltr., Indonesia, Ex. Hort. Royal Botanic Garden Edinburgh, Middleton 3700 (E, K), MF198187, MF198133, MF198087, MF198228, MF198013, MF198051; *Oreosparte parviflora* (Ridl.) Rodda & Simonsson, Sin. Loc., Ex. Hort. Singapore Botanic Gardens, Rodda MR1786 (SING), MF198190, MF198136, MF198089, MF198231, MF198015, MF198054; *Oreosparte sabahensis* Rodda & Simonsson, Malaysia, Dolois & al. SP16224 (SNP), MF198191, MF198137, MF198090, MF198232, MF198016, MF198055; *Papuahoya bykulleana* Simonsson & Rodda, Papua New Guinea, Simonsson Juhoneye & Juhoneye NS0029B (LAE, SING), MF198188, MF198134, MF198088, MF198229, MF198014, MF198052; *Papuahoya neoguineensis* Simonsson & Rodda, Papua New Guinea, Ex. Hort. Singapore Botanic Gardens, Rodda MR1116 (SING), MF198189, MF198135, MF198086, MF198230, MF197992, MF198053; *Papuahoya urniflora* (P. I. Forst.) Rodda & Simonsson, Papua New Guinea, Ex. Hort. Papua New Guinea, Ukarampa, Simonsson Juhoneye & Juhoneye NS0069L (LAE, SING), MF198185, MF198131, MF198081, MF198226, MF198009, MF198049; *Rhysolobium dumosum* E. Mey., –, –, –, AJ431773, AJ431774 & AJ431775; *Ruehssia macrophylla* (Humb. & Bonpl. ex Schult.) H. Karst., –, –, –, AJ574820, AJ574821 & AJ574822;

Ruehssia megalantha (Goyder & Morillo) F. Esp. Santo & Rapini, –, –, –, AJ574837, AJ574836 & AJ574835; **Telosma accedens** (Blume) Backer, –, –, –, AJ431782, AJ431783 & AJ431784; **SECAMONOIDEAE. Pervillaea**

tomentosa Decne., –, –, –, AJ431767, AJ431768 & AJ431769; **Secamone alpini** Schult., –, –, –, AJ428828, AJ428829 & AJ428830; **Secamone filiformis** (L. f.) J. H. Ross, –, –, –, AJ431776, AJ431777 & AJ431778.

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