Supplementary Table S1. Literature data on compatibility status and nectar secretion in *Dendrobium.*

Species	**SI/ SC[i]**	**Dataset**	**N/NL[ii]**	**Dataset**
D. acinaciforme Roxb.	SI	Pinheiro et al. 2015		
D. aduncum Lindl.	SC	Niu et al. 2018	NL	Jia, Huang 2021
D. aggregatum Kunth	SI	Pinheiro et al. 2015		
D. albosanguineum Lindl. & Paxton	SI	Pinheiro et al. 2015		
D. aloifolium (Blume) Rchb.f.	SI	Pinheiro et al. 2015		
D. alterum Seidenf.	SI	Pinheiro et al. 2015		
D. anosmum Lindl.	-	-	N	Jia, Huang 2021
D. aphyllum (Roxb.) C.E.C.Fisch.	SI	Niu et al. 2018 Pinheiro et al. 2015	N	Jia, Huang 2021
D. arachnites Thouras	SI	Pinheiro et al. 2015		
D. bellatulum Rolfe	SC	Niu et al. 2018		
D. bicameratum Lindl.	SI	Niu et al. 2018 Pinheiro et al. 2015		
D. bigibbum Lindl.	SC	Pinheiro et al. 2015	N	Own research
D. bilobulatum Seidenf.	SC/SI	Pinheiro et al. 2015	-	-
D. brymerianum Rchb.f.	SC	Niu et al. 2018 Pinheiro et al. 2015	NL	Jia, Huang 2021
D. capillipes Rchb.f.	SC	Niu et al. 2018		
D. cariniferum Rchb.f.	SC	Niu et al. 2018	NL	Jia, Huang 2021
D. christyanum Rchb.f.	SI	Niu et al. 2018 Pinheiro et al. 2015		
D. chrysanthum Wall. ex Lindl.	SI	Niu et al. 2018	N	Jia, Huang 2021
D. chrysotoxum Lindl.	SC	Niu et al. 2018	N	Jia, Huang 2021
D. compactum Rolfe ex Hemsl.	SI	Pinheiro et al. 2015		
D. concinnum Miq.	-	-		
D. crepidatum Griff.	SC	Niu et al. 2018 Pinheiro et al. 2015	N	Jia, Huang 2021
D. crumenatum Sw.	SI	Niu et al. 2018 Pinheiro et al. 2015	N	Jia, Huang 2021

D. crystallinum Rchb.f.	SC	Niu et al. 2018		
D. delacourii Guillaumin	SC	Pinheiro et al. 2015		
D.delicatum (F.M. Bailey) F.M. Bailey	SI	Own research	NL	Own research
D. denneanum Kerr	SC	Niu et al. 2018	N	Jia, Huang 2021
D. densiflorum Lindl.	SI	Niu et al. 2018	N	Jia, Huang 2021
D. denudans D.Don.	SI	Niu et al. 2018 Pinheiro et al. 2015		
D. devonianum Paxton	SI	Niu et al. 2018 Pinheiro et al. 2015	N	Jia, Huang 2021
D. distichum (C.Presl) Rchb.f.	SI	Pinheiro et al. 2015		
D. dixanthum Rchb.f.	SC	Pinheiro et al. 2015	N	Jia, Huang 2021
D. draconis, Rchb.f.	SI	Niu et al. 2018		
D. ellipsophyllum Tang & F.T.Wang	SI	Niu et al. 2018 Pinheiro et al. 2015	NL	Jia, Huang 2021
D. exile Schltr.	SC	Niu et al. 2018 Pinheiro et al. 2015		
D. falconeri Hook.	SI	Niu et al. 2018 Pinheiro et al. 2015		
D. farmeri Paxton	SI	Niu et al. 2018 Pinheiro et al. 2015	N	Own research
D. fimbriatum Hook.	SC	Niu et al. 2018	N	Jia, Huang 2021
D. findlayanum	SC	Niu et al. 2018		
D. formosum Roxb. Ex Lindl.	SC	Niu et al. 2018		
D. friedericksianum Rchb.f.	SI	Niu et al. 2018	N	Own research
D. gibsonii Paxton	SC	Niu et al. 2018	N	Jia, Huang 2021
D. glomeratum H.J.Veitch ex Rob.	-	-	N	Own research
D. gratiosissimum Rchb.f.	SI	Niu et al. 2018 Pinheiro et al. 2015	N	Jia, Huang 2021
D. griffithianum Lindl.	SI	Pinheiro et al. 2015		
D. hainanense Rolfe	SC	Niu et al. 2018		
D. hancockii Rolfe	SI	Niu et al. 2018	N	Jia, Huang 2021
D. harveyanum Rchb.f.	SI	Niu et al. 2018		
D. hendersonii A.D.Hawkes & A.H.Heller	SI	Pinheiro et al. 2015		
D. hercoglossum Rchb.f.	SC	Niu et al. 2018 Pinheiro et al. 2015	NL	Jia, Huang 2021
D. heterocarpum Wall. ex Lindl.	SC	Niu et al. 2018 Pinheiro et al. 2015		
D. indivisum (Blume) Miq.	SI	Pinheiro et al. 2015		
D. infundibulum Lindl.	SC	Niu et al. 2018	NL	Jia, Huang 2021
D. jenkinsii Wall. Ex Lindl.	SI	Niu et al. 2018		
D. keithii Ridl.	SI	Pinheiro et al. 2015		
D. kingianum Bidwill ex Lindl.	SI	Pinheiro et al. 2015	N	Own research

D. leonis (Lindl.) Rchb.f.	SI	Niu et al. 2018 Pinheiro et al. 2015		
D. leptocladum Hayata	SI	Pinheiro et al. 2015		
D. linawianum Rchb.f.	SC	Niu et al. 2018	NL	Jia, Huang 2021
D. lindleyi Steud.	SI	Niu et al. 2018 Pinheiro et al. 2015		
D. linguella Rchb.f.	SI	Pinheiro et al. 2015		
D. lituiflorum Lindl.	SC	Niu et al. 2018		
D. loddigesii Rolfe	SC	Niu et al. 2018 Pinheiro et al. 2015	N	Jia, Huang 2021
D. lohohense Tang & F.T.Wang	-	-	N	Jia, Huang 2021
D. longicornu Lindl.	SI	Niu et al. 2018	NL	Jia, Huang 2021
D. maccarthiae Thwaites	-	-		
D. macrophyllum A.Rich.	SC	Pinheiro et al. 2015	N	Own research
D. macrostachyum Lindl.	SC	Pinheiro et al. 2015		
D. modestum Rchb.f.	SI	Own research	N	Own research
D. moniliforme (L.) Sw.	SI	Niu et al. 2018	NL	Jia, Huang 2021
D. monophyllum F.Muell.	SI	Bartareau, 1995	NL	Bartareau, 1995
D. moschatum (Banks) Sw.	SI	Niu et al. 2018 Pinheiro et al. 2015		
D. nathanielis Rchb.f.	SI	Pinheiro et al. 2015		
D. nobile Lindl.	SC	Pinheiro et al. 2015	NL	Jia, Huang 2021
D. officinale Kimura & Migo	SC	Niu et al. 2018	NL	Jia, Huang 2021
D. pachyglossum C.S.P.Parish & Rchb.f.	SI	Pinheiro et al. 2015		
D. pachyphyllum (Kuntze) Bakh.f.	SI	Niu et al. 2018 Pinheiro et al. 2015		
D. panduriferum Hook.f.	SI	Pinheiro et al. 2015		
D. parcum Rchb.f.	SI	Pinheiro et al. 2015		
D.parishii H. Low	SI	Pinheiro et al. 2015	N	Jia, Huang 2021
D. pendulum Roxb.	SC	Niu et al. 2018 Pinheiro et al. 2015		
D. polyanthum Wall. Ex Lindl.	SC	Niu et al. 2018		
D. polytrichum Ames	-	-	N	Own research
D. porphyrochilum Lindl.	SI	Niu et al. 2018		
D. primulinum Lindl.	SI	Pinheiro et al. 2015	N	Jia, Huang 2021
D. pulchellum Roxb. ex Lindl.	SI	Niu et al. 2018 Pinheiro et al. 2015		
D. salaccense (Blume) Lindl.	SC	Pinheiro et al. 2015		
D. scoriarum W.W. Sm.	SC	Niu et al. 2018	NL	Jia, Huang 2021
D. secundum (Blume) Lindl. ex Wall.	SI	Niu et al. 2018 Pinheiro et al. 2015	N	Own research
D. senile C.S.P.Parish & Rchb.f.	SI	Pinheiro et al. 2015		

D. setifolium Ridl.	SI	Pinheiro et al. 2015		
D. signatum Rchb.f.	SI	Niu et al. 2018	NL	Jia, Huang 2021
D. spatella Rchb.f.	SI	Niu et al. 2018		
D. speciosum Sm.	SI	Pinheiro et al. 2015	NL	Jia, Huang 2021
D. spectabile (Blume) Miq.	SC	Pinheiro et al. 2015		
D. stratiotes Rchb.f.	SC	Pinheiro et al. 2015		
D. strongylanthum Rchb.f.	SI	Niu et al. 2018		
D. stuposum Lindl.	SI	Niu et al. 2018	N	Jia, Huang 2021
D. subulatum (Blume) Lindl.	SI	Pinheiro et al. 2015		
D. sulcatum Lindl.	SC	Pinheiro et al. 2015	N	Jia, Huang 2021
D. terminale C.S.P.Parish & Rchb.f.	SC	Niu et al. 2018		
D. thyrsiflorum B.S. Williams	SI	Niu et al. 2018	N	Jia, Huang 2021
		Pinheiro et al. 2015		
D. tortile Lindl.	SC	Pinheiro et al. 2015		
D. trantuanii Perner & X.N.Dang	SC	Niu et al. 2018		
D. trigonopus Rchb.f.	SC	Niu et al. 2018		
D. trinervium Ridl.	-	-	N	Own research
D. unicum Seidenf.	SC	Niu et al. 2018		
D. virgineum Rchb.f.	SI	Niu et al. 2018		
		Pinheiro et al. 2015		
D. wardianum R.Warner	SC	Niu et al. 2018		
		Pinheiro et al. 2015		

i – SC - self-compatible species; SI - self-incompatible

ii – N – nectariferous; NL– nectarless