

SUPPLEMENTAL DATA

Supplemental data Appendix S1. List of species, collection data, relationship of material studied. Voucher specimens of the species used for anatomical and molecular analysis.

***Deuterocohnia brevifolia* (Griseb.) M.A.Spencer & L.B.Sm.** BOLIVIA. Prov. Arce: Bermejo, 11/X/2006, *Schütz et al.* 06-061, 06-063 (FR). ***Deuterocohnia brevispicata* Rauh & L.Hromadnik** BOLIVIA. Prov. Tomina: Monteagudo to Padilla, 4/X/2006, *Schütz et al.* 06-041 (FR). ***Deuterocohnia chrysantha* (Philippi) Mez** CHILE. Prov. Antofagasta: Taltal, Paposo, 28/XII/2006, *Zizka* 8147 (FR); *idem*, *Zizka* 8149 (FR); *idem*, 29/XII/2006, *Zizka* 8170 (FR). ***Deuterocohnia haumanii* Castellanos** ARGENTINA. Prov. Salta: Cuesta del Obispo, 10/XI/2002, *Cocucci* 2077 (CORD). ***Deuterocohnia glandulosa* E.Gross** BOLIVIA. Prov. Cordillera: Dept. Santa Cruz: Ipati to Lagunillas, 3/X/2006, *Schütz et al.* 06-020 (FR). ***Deuterocohnia longipetala* (Baker) Mez** ARGENTINA. Prov. Catamarca: Dept. Capayán: San Martín, 26/II/1994, *Leuenberger & Eggli* 4370 (CORD). PERU. Prov. Cajamarca: Lambayeque, 17/I/2008, *Versieux & Cavalcante* 463 (SP). ***Deuterocohnia meziana* Kunth ex Mez** BRAZIL. Mato Grosso do Sul: Bodoquena Parque Nacional da Serra da Bodoquena, 6/XII/2010, *Martinelli* 16925 (RB); Ladário, 19/V/1998, *Forzza* 827 (RB; SPF). ***Deuterocohnia recurvipetala* E.Gross** ARGENTINA. Prov. Córdoba: Dept. Tulumba, 5/V/1959, *Hunziker* 12171 (CORD). ***Deuterocohnia scapigera* (Rauh & L.Hromadnik) M.A.Spencer & L.B.Sm., Leme, E.** 2440 (HB). ***Deuterocohnia scapigera* subsp. *sanctae-crucis* Vásquez & Ibisch** BOLIVIA. Mataral and Comarapa, 29/XII/1999, *Vásquez* 3523 (FR). ***Deuterocohnia strobilifera* Mez** BOLIVIA. Dept. Chuquisaca: Camargo to Tarija, 10/X/2006, *Schütz et al.* 06-048 (FR). El Puente to Impora, 13/X/2006, *Schütz et al.* 06-069 (FR). Puente, 13/X/2006, *Schütz et al.* 06-072 (FR). ***Dyckia acutiflora* Leme & Z.J.G.Miranda** BRAZIL. Goiás: Santo Antônio do Descoberto, *Miranda s.n.*, II/2006, cultivated, *Leme* 6806 (RB). ***Dyckia arenitcola* Leme** BRAZIL. Mato Grosso: Chapada dos Guimarães, Paranatinga, 5/XI/2006, *Leme & Gonzalez* 6944 (HB; RB); *idem*, 6/XI/2006, *Leme* 6966 (RB). ***Dyckia beateae* E.Gross & Rauh** BRAZIL. Mato Grosso: Araguainha, VII/1986, *Braun s.n.* (HB 89936). ***Dyckia brachyphylla* L.B.Sm.** BRAZIL. Minas Gerais: Itacambira, 9/I/1986, *Cordeiro et al. s.n.* (RB 270295). ***Dyckia bracteata* (Witt.) Mez** BRAZIL. Minas Gerais: Alto Caparaó, 7/II/1985, *Lima* 2569 (RB); *idem*, 27/XI/1998, *Martinelli & Mariano* 15171 (RB). ***Dyckia braunii* Rauh** BRAZIL. Goiás: Alto Paraíso de Goiás, 24/V/1996, *Esteves* E-371 (UFG). ***Dyckia brevifolia* Baker** BRAZIL. Cultivada, IV/1999, *Silva* 12 (RB). Santa Catarina: Ibirama, 22/X/2012, *Santos-Silva* 187 (RB). ***Dyckia choristaminea* Mez** BRAZIL. Rio Grande do Sul: Arroio dos Ratos, 26/VI/1976, *Hagelund* 10316 (ICN); Guaíba, 3/XI/2006, *Bovini* 2648 (RB); *idem*, 27/XI/2007, *Dettke* 79 (ICN). ***Dyckia cinerea* Mez** BRAZIL. Itacolomi, 20/IX/1896, *Schwacke* 12515 (RB). ***Dyckia delicata* Larocca & Sobral** BRAZIL. Rio Grande do Sul: Barros Cassal, XII/1996, *Sobral* 96-001 (HB; ICN; MBM; US; ZSS); *idem*, 20/III/1998, *Sobral s.n.* (HAS 36098). ***Dyckia dissitiflora* Schult. & Schult.f.** BRAZIL. Bahia: Érico Cardoso, 26/XII/2004, *Forzza* 3831 (RB). ***Dyckia duckei* L.B.Sm.** BRAZIL. Pará: Parauapebas, 23/XI/2009, *Ribeiro* 1339 (RB); *idem*, 2/V/2015, *H.C. Lima* 7982 (RB). ***Dyckia elisabethae* Winkler** BRAZIL. Rio Grande do Sul: Arroio dos Ratos, XI/1975, *Winkler* 741 (ICN). Barra do Ribeiro, 4/XII/2000, *Strechl* 417 (HAS). Taquari, XI/1986, *Sobral et al.* 5179 (ICN). ***Dyckia encholirioides* (Gaudich.) Mez** BRAZIL. São Paulo: Cananéia, 20/X/1981, *Fonseca* 493 (RB). ***Dyckia ferruginea* Mez** BRAZIL. Mato Grosso

do Sul: Serra da Bodoquena, *Burle-Marx s.n.* (HB). Planta do viveiro, X/1942, *Kuhlmann s.n.* (RB 47420); *idem* (RB 3286). ***Dyckia floribunda* Griseb.** ARGENTINA. Dept. La Viña, 13/XII/1985, *Palaci* 369 (CORD); *idem*, 9/XI/2002, *Coccuci* 2062 (CORD); *Hunziker* 16664 (CORD). ***Dyckia fosteriana* L.B.Sm.** BRAZIL. Paraná: Balsa Nova, 6/X/2012, *Santos-Silva* 165 (RB). ***Dyckia gouveiana* Leme & O.B.C. Ribeiro** BRAZIL. Minas Gerais: Gouveia, 11/XII/2011, *Leme et al.* 8600 (RB). ***Dyckia hebdingii* L.B.Sm.** BRAZIL. Rio Grande do Sul: Arroio dos Ratos, 3/XII/1989, *Caldas* 225 & *Strehl* 1435 (HAS); *idem*, 16/I/1995, *Strehl* 1280 (HAS). ***Dyckia hohenbergioides* Leme & E.Esteves** BRAZIL. Bahia: Botuporã, IX/1997, *Pereira E-385* (HB 87081); Seabra, X/1997, *Pereira E-385* (HB). ***Dyckia ibicuiensis* T.Strehl** BRAZIL. Rio Grande do Sul: Santa Maria, s.d., *Silveira & Mansan* 11260 (HAS); *idem*, s.d., *Silveira* 11265 (HAS); *idem*, 10/XII/1992, *Silveira* 11296 (HAS); *idem*, 29/I/1993, *Strehl* 1123 (HAS); São Pedro do Sul, 11/I/1984, *Dutra* 170 (HAS). ***Dyckia ibiramensis* Reitz** BRAZIL. Santa Catarina: Ibirama, 10/XI/2012, *Santos-Silva* 195 (RB); *idem*, 11/XII/2013, *Santos-Silva* 213 (RB). ***Dyckia kranziana* Leme** BRAZIL. Mato Grosso: Pedra Preta, 28/IV/2006, *Leme* 6826, *Kranz* 122 (RB); Rondonópolis, 24/VIII/2006, *Kranz* 122 (RB); *idem*, 24/VIII/2006, *Leme* 6826 (HB; RB). ***Dyckia macedoi* L.B.Sm.** BRAZIL. Minas Gerais: Cachoeira da Farofa, 16/X/2013, *Maurenza* 6 (RB); Santana do Riacho, 16/IX/1983, *Arraias s.n.* (RB 211813); *idem*, 5/IV/1995, *Forzza & Pitta* 100 (RB; SPF); Santana do Pirapama, 13/XI/2009, *Zappi* 2343 (RB; SPF). ***Dyckia maracasensis* Ule** BRAZIL. Bahia: Maracás, 15/VI/1982, *Martinelli* 8511 (RB). ***Dyckia marnier-lapostollei* L.B.Sm.** BRAZIL. Goiás: Alto Paraíso de Goiás Chapada dos Veadeiros 21/I/2009, *Martinelli* 16229 (RB); Cocalzinho de Goiás, 23/XI/2011, *Forzza* 6738 (RB); Pirenópolis, 28/V/2011, *Silva* 7325 (RB). ***Dyckia martinellii* B.R.Silva & Forzza** BRAZIL. Rio de Janeiro: 5/II/2003, *Forzza* 2386 (RB). ***Dyckia microcalyx* var. *ostenii* L.B.Sm.** ARGENTINA. Dept. Iguazú, Parque Nacional Del Iguazú, Caminho na trilha baixa em direção ao embarcadouro para bote para Isla San Martin, 11/XII/2011, *Santos-Silva* 85 (RB). BRAZIL. Paraná: Capitão Leônidas Marques, 10/X/2012, *Santos-Silva* 185 (RB). ***Dyckia milagrensis* Leme** BRAZIL. Bahia: Milagres, 4/VI/1996, *Leme* 3391 (HB); *idem*, 17/XI/2013, *Forzza* 7493 (RB). ***Dyckia minarum* Mez** BRAZIL. Minas Gerais: Caldas, 3/X/1868, *Regnell II-283* (US); *idem*, s.d., *Regnell III-529* (RB); São Roque de Minas, 7/II/2002, *Mello-Silva* 1952 (RB). São Thomé das Letras, 13/VII/1950, *Brade* 20479 (RB). ***Dyckia mirandana* Leme & Z.J.G.Miranda** BRAZIL. Goiás: Alto Paraíso de Goiás, 23/VIII/1998, *Miranda* 933 (HB). ***Dyckia montezumensis* Leme** BRAZIL. Minas Gerais: Montezuma, 26/V/2010, *Leme* 8315 (RB). ***Dyckia monticola* L.B.Sm. & Reitz** BRAZIL. Santa Catarina: Campo Alegre, 20/V/1998, *Barbara* 33 (RB); *idem*, 20/V/1998, *Barbara* 34 (RB); *idem*, 16/IX/1990, *Leme* 1664 (HB). ***Dyckia nana* Leme & O.B.C.Ribeiro** BRAZIL. Minas Gerais: Diamantina Estrada Diamantina a Conselheiro Mata, 25/VI/2008, *Leme* 7484 (RB). ***Dyckia niederleinii* Mez** ARGENTINA. Prov. Misiones: Além a Cerro Azul, 28/XI/1972, *Schinini* 5572 (ICN); San Ignacio, 18/XII/2001, *Forzza et al.* 2023 (RB). ***Dyckia pectinata* L.B.Sm. & Reitz** BRAZIL. Minas Gerais: Conceição do Rio Verde, 16/VII/2004, *Kranz* 78 (RB); Ouro Preto, 25/X/1896, *Schwacke* 12632 (RB); *idem*, 13/IX/1896, *Schwacke* 12503 (RB). ***Dyckia pernambucana* L.B.Sm.** BRAZIL. Pernambuco: Serra Dois Irmãos, Afrânio, 2/IX/1961, *Lima* 61-3621 (RB); Triunfo, 7/VIII/2014, *Costa-Lima* 1498 (RB). ***Dyckia pottiorum* Leme** BRAZIL. Mato Grosso do Sul: Corguinho, 16/IX/2011, *Leme* 8579 (HB; RB); *idem*, 16/IX/2011, *Leme* 8578 (RB); *idem*, 16/IX/2011, *Leme* 8580 (RB). ***Dyckia pseudococcinea* L.B.Sm.** BRAZIL. Rio de Janeiro. Niterói, Maricá, s.d., *Ormino s.n.* (RB 424780); *idem*, 25/X/2012, *Vasconcellos* 370 (RB). ***Dyckia pulquinensis* Witt.**

BOLIVIA. Santa Cruz: Valle Grande, Pulquina, 13/XII/2002, *Forzza* 2330 (RB). ***Dyckia ragonesei* Castellanos** PARAGUAI. Boquerón, Filadélfia Caminho para Tenente Montania, 7/XII/2012, *Santos-Silva* 199 (RB). ***Dyckia rariflora* Schult. & Schult.f.** BRAZIL. Minas Gerais: Ouro Branco, 18/V/2011, *Forzza* 6386 (RB). ***Dyckia remotiflora* Otto & Dietrich** BRAZIL. Rio Grande do Sul: São Sepé, 25/XI/2005, *Machado* 614 (RB). ***Dyckia rondonopolitana* Leme** BRAZIL. Mato Grosso: Rondonópolis, 28/IV/2006, *Kranz* 123 (RB). ***Dyckia saxatilis* Mez** BRAZIL. Minas Gerais: Boa Vista de Lages, 16/VI/2011, *Mello-Silva et al.* 3433 (RB); Itacambira, 14/III/1999, *Rapini & Kawasaki* 796 (SPF); Lima Duarte, 9/XII/1998, *Martinelli* 15308 (RB). ***Dyckia secunda* L.B.Sm.** BRAZIL. Bahia: Contendas do Sincorá, 4/XII/1992, *Leme* s.n. (RB 517962). ***Dyckia selloa* (K.Koch) Baker** BRAZIL. Rio Grande do Sul: Júlio de Castilhos, 3/XII/2013, *Santos-Silva* 210 (RB). ***Dyckia strehliana* H.Büneker & R.Pontes** BRAZIL. Rio Grande do Sul: Júlio de Castilhos, 3/XII/2013, *Santos-Silva* 208 (RB). ***Dyckia tenebrosa* Leme & H.Luther** BRAZIL. Minas Gerais Estrada tombada a Andrequicé, 30/I/1995, *Leme* 2895 (HB; RBvb 1883). ***Dyckia tobatensis* Hassler** PARAGUAY. Central Paraguay: Tobaty, *Hassler* 2099 (G; F). ***Dyckia ursina* L.B.Sm.** BRAZIL. Minas Gerais: Jaboticatubas, 23/IX/2011, *Santos-Silva* 23 (RB); Santana do Riacho, 4/IX/1995, *Forzza* 126 (SPF). ***Dyckia velascana* Mez** ARGENTINA. Prov. Catamarca: Dept. Fray Esquiú: Polcos, 4/X/1973, *Hunziker* 22316 (CORD); Prov. La Rioja: Dept. General Felipe Varela, Cuesta de Miranda, 9/I/2009, *Donadio* 103 (SP). Prov. Salta: Dept. Cafayate: 12/XI/1984, *Subils* 3560 (CORD); Prov. San Juan: Dept. Iglessia, Tambillos, *Graeff* 1024 (CORD). ***Dyckia vicentensis* T.Strehl** BRAZIL. Rio Grande do Sul: Agudo, 8/XII/1995 *Strehl* 1443 (HAS 33942); *idem*, 18/XII/1996, *Strehl* 1597 (HAS 101005); Santana do Livramento, 12/IV/1995, *Nilson* 393 (HAS); São Francisco de Assis, I/1995, *Hausen* s.n. (HAS 36094); São Vicente do Sul, 28/IX/1995, *Strehl* 1375 (HAS). ***Dyckia walteriana* Leme** BRAZIL. Paraná: Londrina, 21/IV/2006, *Kranz* 13 (HB; RB). ***Encholirium agavoides* Forzza & Zappi** BRAZIL. Minas Gerais: Santana de Pirapama, 28/II/2008, *Forzza* 5475 (RB); *idem*, 19/II/2008, *Zappi* 808 (RB). ***Encholirium ascendens* Leme** BRAZIL. Minas Gerais: Porteirinha, 23/VI/2008, *Leme* 7451 (HB; RB). ***Encholirium brachypodium* L.B. Smith & R.W. Read** BRAZIL. Bahia: Bom Jesus da Lapa, 18/VII/2005, *Forzza* 4079 (RB). ***Encholirium biflorum* (Mez) Forzza** BRAZIL. Minas Gerais: Diamantina, *Forzza* 1466 (SPF); *idem*, 13/II/2014, *Martinelli* 18283 (RB). ***Encholirium ctenophyllum* Forzza & Zappi** BRAZIL. Minas Gerais: Santana do Riacho, 18/II/2007, *Zappi* 806 (RB); *idem*, 25/II/2009, *Forzza* 5455 (RB). ***Encholirium diamantinum* Forzza** BRAZIL. Minas Gerais: Diamantina, 16/XI/2007, *Forzza* 4865 (RB); *idem*, 13/II/2014, *Martinelli* 18289 (RB); Serro, 16/XI/2007, *Forzza* 4858 (RB; RBvb 524). ***Encholirium disjunctum* Forzza** BRAZIL. Goiás: Guarani de Goiás, 5/XII/2003, *Forzza* 2570 (RB; SPF). ***Encholirium eddie-estevesii* Leme & Forzza** BRAZIL. Goiás: Niquelândia, 16/IX/1998, *Forzza* 1046 (SPF). Nova Roma, 25/VII/2007, *Forzza* 4669 (RB). Tocantins: Aurora do Tocantins, 13/IV/2008, *Martinelli* 16387 (RB). ***Encholirium erectiflorum* L.B.Sm.** BRAZIL. Piauí: Piracuruca, 20/VII/2007, *Mendonça* 6063 (IBGE; RB); *idem*, Parque Nacional de Sete Cidades, cachoeira do Riachão, 15/IX/1977, *Barroso* 241 (RB; SPF). ***Encholirium fragae* Forzza** Brasil, Bahia, São Desidério, 22/VI/2007, *Martinelli* 16211 (RB). ***Encholirium heloisae* (L.B.Sm.) Forzza & Wand.** BRAZIL. Minas Gerais: Santana do Riacho, 26/IV/1978, *Martinelli* 4367 (RB); *idem*, 25/II/1984, *Dalcin* 4 (RB). ***Encholirium horridum* L.B.Sm.** BRAZIL. Espírito Santo: Vila Velha, 10/II/2011, *Forzza* 6083 (RB). ***Encholirium irwinii* L.B.Sm.** BRAZIL. Minas Gerais: Grão Mogol, 17/VII/1998, *Forzza* 801 (SPF); *idem*, 14/VIII/2012, *Moura* 4 (RBvb 1761). ***Encholirium kranzianum* Leme & Forzza** Minas

Gerais: Bocaiúva Near the border with Turmalina and Carbonita, 18/XI/2013, *Kranz* 393 (RB). ***Encholirium longiflorum* Leme** BRAZIL. Minas Gerais: Santana, Distrito de Porto Novo, 17/VII/2005, *Forzza* 4076 (RB); *idem*, *Forzza* 4077 (RB). ***Encholirium luxor* L.B.Sm. & R.W.Read** BRAZIL. Goiás: Vila Propício, 20/V/1998, *Forzza* 917 (RB; SPF). *idem*, s.d., *Moura* 66 (RBvb 1803). ***Encholirium lymanianum* E.Pereira & Martinelli**. BRAZIL. Mato Grosso do Sul: Aquidauana, 11/VIII/1970, *Hatschbach* 24566 (RB). ***Encholirium magalhaesii* L.B.Sm.** BRAZIL. Minas Gerais: Diamantina, *Forzza* 472 (SPF); *idem*, 10/XII/1997, *Forzza* 565 (SPF); *idem*, 17/VIII/2012, *Moura* 35 (RB; RBvb 1770); *idem*, 13/II/2014, *Martinelli* 18269 (RB). ***Encholirium maximum* Forzza & Leme** BRAZIL. Bahia: Oliveira dos Brejinhos, 16/IV/1999, *Forzza* 1234 (RB; SPF); *idem*, 15/XI/2012, *Forzza* 7476 (RB). ***Encholirium pedicellatum* (Mez) Rauh** BRAZIL. Minas Gerais: Diamantina, 30/I/2000, *Forzza* 1504 (SPF; US); Sopa, 12/VI/2006, *Menini Neto* 197 (RB). ***Encholirium pulchrum* Forzza et al.** BRAZIL. Minas Gerais: Morro do Pilar, 14/XI/2005, *Ribeiro* 48 (RB); *Moura* 72 (RBvb 1850). ***Encholirium reflexum* Forzza & Wand.** BRAZIL. Minas Gerais: Rio Pardo de Minas, V/1998, *Forzza* 800 (SPF; US). ***Encholirium scrutor* (L.B.Sm.) Rauh** BRAZIL. Minas Gerais: Datas, 1/II/2000, *Forzza* 1520 (RB; SPF); São Roque, Estrada Lajinha-Mutum, 9/II/2011, *Forzza* 6057 (RB); Serro, 12/II/2014, *Verdi* 6940 (RB). ***Encholirium* sp. nov. aff. *gracile* L.B.Sm.** BRAZIL. Espírito Santo: Nova Venécia, 20/XI/2009, *Forzza et al.* 5769 (RB). ***Encholirium spectabile* Mart. ex Schult. & Schult.f** BRAZIL. Bahia: Itaberaba, 12/XI/2012, *Forzza* 7419 (RB). Ceará: Meruoca, 14/VIII/1998, *Martinelli* 15058 (RB). ***Encholirium subsecundum* (Baker) Mez.** BRAZIL. Minas Gerais: Botumirim Estrada para o rio do Peixe, 18/XI/2007, *Forzza* 4890 (RBvb 248); Conceição do Mato Dentro, 4/III/1998, *Forzza* 755 (SPF); Diamantina, 12/II/2014, *Martinelli* 18213 (RB); Santana do Riacho, 13/II/1996, *Forzza* 174 (SPF). ***Encholirium splendidum* Forzza** BRAZIL. Bahia, Santana Porto Novo, 3/VII/2004, *Machado* 275 (RB). ***Encholirium vogelii* Rauh** BRAZIL. Minas Gerais, Santana do Riacho, 1/II/1987, *Wendt* 88 (RB); *idem*, 20/X/1997, *Forzza* 315 (RB). ***Fosterella hatschbachii* L.B.Sm. & Read** BRAZIL. Mato Grosso do Sul: Aquidauana, 15/IX/2011, *Leme* 8575 (RB). ***Fosterella windischii* L.B.Sm. & Read** BOLIVIA. La Paz Nor Yungas: Coroico, 28 km na estrada Cotapata - Chulumani. Vale do Rio Unduavi, 20/XII/2002, *Forzza* 2370 (RB). BRAZIL. Mato Grosso: Vila Bela da Santíssima Trindade Serra de Ricardo Franco, 13/VII/2007, *Kranz* s.n. (RB 484465); *idem*, *Kranz* 212 (RB). ***Pitcairnia uaupensis* Baker** BRAZIL. Amazonas: Camanaus, 27/X/1978, *Nascimento* 807 (RB); São Gabriel da Cachoeira Igarapé Yá-Mirim, Parque Nacional Pico da Neblina, 1/IX/2011, *Saraiva* 234 (RB). ***Pitcairnia ulei* L.B.Sm.** BRAZIL. Distrito Federal, 19/VI/1985, *Mendonça* 480 (RB); *idem*, 29/XI/2011, *Saraiva* 309 (RB). Goiás: Alto Paraíso de Goiás São Jorge, 15/X/1980, *Martinelli* 7509 (RB); *idem*, 27/IX/1995, *Fonseca* 625 (RB); *idem*, 1/XII/2003, *Forzza* 2513 (RB); *idem*, 25/XI/2011, *Saraiva* 293 (RB); Pirenópolis, Parque Estadual dos Pirineus, 24/XI/2011, *Saraiva* 292 (RB).

Supplemental data Appendix S2. Complete list of examined material.

***Deuterocohnia brevifolia* (Griseb.) M.A.Spencer & L.B.Sm.** ARGENTINA. Prov. Jujuy: Dept. Tilcara: 20/II/1984, *Varadarajan* 1261 (US); Dept. Tumbaya: Volcán, 27/X/1964, *Cabrera* 16333 (US); *idem*, VII/1922 *Castellanos* 1049 (BA); *idem*, 30/XI/1918, *Castillon* 6458 (BA); *idem* 7/XI/1974, *Schinini et al.* 10177 (NY); *idem*, 20/II/1984, *Varadarajan* 1258 (MCNS, US); Laguna El Volcán, 1/XI/1974, *Subils* 2032 (CORD). BOLIVIA. Prov. Arce: Bermejo, 1/X/2006, *Schütz* 06-061, 06-063 (FR).

Deuterocohnia brevispicata* Rauh & L.Hromadnik** BOLIVIA. Prov. Tomina: Monteagudo to Padilla, 4/X/2006, *Schütz* 06-041 (FR); Prov. Hernando Siles: Monteagudo a Padilla, 28/VI/1995, *Kessler* 4948 (LPB). ***Deuterocohnia chrysantha (Philippi) Mez CHILE. Prov. Antofagasta: Taltal, Paposo, 28/XII/2006, *Zizka* 8147 (FR); *idem*, *Zizka* 8149 (FR); *idem*, 28/X/2006, *Zizka* 8153 (FR); *idem*, 14/X/1987, *Dillon* 5270 (F); *idem*, 28/X/2006, *Zizka* 8157 (FR); Quebrada de Taltal, 10/IX/1936, *Montero* 2890 (GH); *idem*, 21/II/1964, *Marticorena* 433 (SGO); *idem*, 30/I/1952, *Hutchison* 400 (UC); Panamericana, 26/XI/1991, *Eggli* 1769 (B). Prov. Chañaral: Parque Nacional Pan de Azúcar, 5/XII/1987, *Dillon* 5092 (F); *idem*, XI/1853, *Philippi* s.n. (SGO 46359); *idem*, 18/XI/1925, *Johnston* 5840 (GH); *idem*, Huanchillo, 6/II/1991, *Zizka* 1565 (FR); Quebrada Los Infieles, 12/XII/1994, *Eggli* 2629 (B). ***Deuterocohnia glandulosa* E.Gross** BOLIVIA. Prov. Cordillera: Dept. Santa Cruz: Ipati to Lagunillas, 3/X/2006, *Schütz* 06-020 (FR); Prov. O'Connor: between Entre Rios and Tarija, 4/X/1986, *Fournet* 715 (US). ***Deuterocohnia haumanii* Castellanos** ARGENTINA. Prov. Salta: Rio Grande, 24/IX/1969, *Valenzuela* s.n. (LIL 556207). Dept. Cachi: RP 33 between Salta and Cachi, 27/XII/2006, *Schütz* 06-095 (LIL). Pena Baya, 21/II/1984, *Varadarajan* 1262 (US); Quebrada del Mal Paso, 21/II/1984, *Varadarajan* 1266 (US); Cuesta del Obispo, 10/XI/2002, *Cocucci* 2077 (CORD); Quebrada de las Conchas, 27/XI/1933, *Peirano* s.n. (LIL 34592); between Cafayate and Alemania, Las Abritas, 28/XI/2006, *Schütz* 06-117 (LIL). Dept. Guachipas: Quebrada de Guachipas, 23/I/1943, *Castellanos* 46630 (BA); Tres Cruces, 20/I/1945, *Descote* 3000 (LIL); *idem*, XI/2006, *Schütz* 06-114 (LIL); Cafayate and Alemania, XI/2006, *Schütz* 06-114 (LIL); Cuesta Del Lajar, 28/XI/2006, *Schütz* 06-123 (LIL); Guachipas, 20/X/1948, *Smith* 4655 (GH; US); *idem*, XII/1896, *Spegazzini* s.n. (LP 209). Dept. Cafayate: Tolombón, 19/X/1948, *Castellanos* s.n. (LIL 313266); Valles Calchaquies, XI/1919, *Hauman* s.n. (BA 1110; GH; K); Cafayate, Alemania, 25/IX/1969, *Vaca* 400 (LIL). Dept. La Candelaria: Santa Bárbara, 24/XI/1930, *Schreiter* 6481 (LIL); Quebrada de Unquillo, 7/XI/1931, *Schreiter* 6618 (BA; LIL); *idem*, 7/XI/1931, *Schreiter* 6726 (A; LIL; BAB; US). ***Deuterocohnia longipetala (Baker) Mez*** ARGENTINA. Prov. Jujuy: Dept. San Pedro: San Pedro, 16/X/1964, *Cabrera* 16047 (LP); Prov. Catamarca: Dept. Capayán: San Martín, 26/II/1994, *Leuenberger* 4370 (CORD). Santa Laura, 29/X/1964, *Cabrera* 16389 (LP; US). Prov. Salta: Dept. Grl. San Martín: Piquirenda to Quebrada de Yacuy, 3/III/1925, *Schreiter* 3610 (LIL). Dept. Orán: Río Bermejo, 21/XI/1974, *Ruiz* 10642 (LIL). PERU. Prov. Cajamarca: Lambayeque, 17/I/2008, *Versieux* 463 (SP). ***Deuterocohnia meziana Kunth ex Mez*** BOLIVIA. Prov. Chiquitos: San José, 29/I/2004, *Neffa* 1313 (LPB); Robore, 3/XII/2002, *Forzza* 2253 (LPB; RB; SPF); Prov. Florida: Comarapa to Mariana, 8/VIII/1987, *Nee* 35601 (LPB; NY; US); refugio Los Volcánes, 4/X/1997, *Kessler* 12307 (LPB); Prov. Caballero: Comarapa to Vallegrande, XI/1947, *Cárdenas* 4007 (US); Prov. Gran: Chaco: Palos Blancos, 24/XII/1983, *Beck* 9727 (LPB). BRAZIL. Mato Grosso do Sul: Bodoquena Parque Nacional da Serra da Bodoquena, 6/XII/2010, *Martinelli* 16925 (RB); Corumbá, 25/X/1953, *Pereira* 497 (RB); Ladário, 19/V/1998, *Forzza* 827 (RB; SPF). PARAGUAY. Distr. Concepción: Puerto Fonciere, alto Paraguay, XII/1916, *Rojas* 2270 (BA). ***Deuterocohnia recurvipetala* E.Gross** ARGENTINA. Prov. Santiago Del Estero: Dept. Ojo de Agua: Cerro de La Cruz, 29/IX/1944, *Balegan* 157 (LIL); Prov. Córdoba: Dept. Tulumba, 5/V/1959, *Hunziker* 12171 (CORD). ***Deuterocohnia scapigera (Rauh & L. Hromadnik) M.A.Spencer & L.B.Sm. subsp. scapigera* Cultivo Leme 2440 (HB).** ***Deuterocohnia scapigera* subsp. *sanctae-crucis* Vásquez & Ibisch** BOLIVIA: Dept. Santa Cruz: Prov. Florida, *Müller* 259 (LPB). Mataral and Comarapa, 29/XII/1999, *Vásquez* 3523 (FR). Dept. Chuquisaca: Prov. Tomina: Monteagudo to Padilla,

4/VII/1995, *Kessler 5085* (LPB). ***Deuterocohnia schreiteri* Castellanos** ARGENTINA. Prov. Salta: Dept. Molinos: Seclantás a Brealito, 20/VII/1945, *Meyer 9149* (LIL); Seclantas, 27/IX/2006, *Schütz 06-102* (FR); Dept. Cafayate: between Cafayate and Alemania, 28/XI/2006, *Schütz 06-109* (LIL); La Punilla, 18/III/1928, *Varadarajan 1249* (US); Valles Calchaquíes, 27/IX/2006, *Schütz 06-105* (FR). ***Deuterocohnia strobilifera* Mez** BOLIVIA. Dept. Chuquisaca: Camargo to Tarija, 10/X/2006, *Schütz 06-048* (FR). El Puente to Impora, 13/X/2006, *Schütz 06-069* (FR). Puente, 13/X/2006, *Schütz 06-072* (FR); Prov. Modesto Omiste: Higuieras to Villazón, 9/III/1998, *Beck 23800* (LPB). Dept. Tarija: Prov. Méndez: Cantón Paycho, 27/II/1991, *García 2394* (LPB); El Puente to Tarija, 10/X/2006, *Schütz 06-051* (LPB); Tomayapo and Iscayachi, 8/V/2003, *López 771* (LPB); Iscayachi, via Potosí, 9/XII/1993, *Beck 22042* (LPB). ARGENTINA. Prov. Jujuy: Dept. Santa Catalina: Cuesta de Toquero, 31/I/1943, *Cabrera 7789* (LP). ***Dyckia acutiflora* Leme & Z.J.G. Miranda** BRAZIL. Goiás: Santo Antônio do Descoberto, *Miranda s.n.*, II/2006, cultivated, *Leme 6806* (RB 567989). ***Dyckia areniticola* Leme** BRAZIL. Mato Grosso: Chapada dos Guimarães, Paranatinga, 5/XI/2006, *Leme 6944* (HB; RB); *idem*, 6/XI/2006, *Leme 6966* (RB); *idem*, 6/XI/2006, *Leme 6969* (RB). ***Dyckia beateae* E.Gross & Rauh** BRAZIL. Mato Grosso: Araguainha, VII/1986, *Braun s.n.* (HB 89936). ***Dyckia brachyphylla* L.B.Sm.** BRAZIL. Minas Gerais: Congonhas do Norte, 12/II/1998, *Costa 11* (SPF); Datas, 14/X/2000, *Lovo 125* (SPF); Diamantina, 21/I/1969, *Irwin 22383* (NY; RB; US); *idem*, 26/03/1970, *Irwin 28389* (NY); *idem*, 23/II/1986, *Mello-Silva s.n.* (RB 271814); Itacambira, 9/I/1986, *Cordeiro s.n.* (RB 270295; SPF); Presidente Kubitscheck, 15/XII/2004, *Forzza 3735* (SPF); Serro, 25/10/1999, *Hatschbach 69724* (MBM). ***Dyckia bracteata* (Witt.) Mez** BRAZIL. Minas Gerais: Alto Caparaó, 15/XI/1960, *Flaster 115* (RB); *idem*, 27/XI/1998, *Martinelli 15171* (RB); *idem*, 19/XI/1988, *Krieger s.n.* (CESJ 37729); *idem*, 7/II/1985, *Lima 2569* (RB); *idem*, IX/1941, *Brade 16983* (RB); Araponga, 17/V/2001, *Caiafa 166* (CESJ 49328); Barão de Cocais, 27/01/1971, *Irwin 29249* (NY 679929); Catas Altas, 15/VIII/1999, *Vasconcelos s.n.* (BHCB 49224; SPF); *idem*, 26/VIII/2008, *Oliveira 54* (RB); Imbiruçu, 18/VIII/1976, *Kautsky 555* (HB); Itacolomi, 2/X/1898, *Schwacke 13777* (RB); Moquima, 1/IV/1957, *Pereira 2761 & Pabst 3597* (RB); Ouro Branco, s.d., *Schwacke 3510* (B); *idem*, s.d., *Schwacke 12207* (RB); Ouro Preto, 29/VI/1896, *Schwacke 12209* (RB); *idem*, 27/VII/1896, *Schwacke 2207* (RB); *idem*, 18/VIII/1998, *Forzza et al. 1025* (SPF); São Sebastião do Paraíso, 1/IV/1957, *Pereira 2761* (RB). ***Dyckia braunii* Rauh** BRAZIL. Goiás: Alto Paraíso de Goiás, 24/V/1996, *Esteves E-371* (UFG); Nova Roma, 13/III/1995, *Cavalcanti 1291* (CEN). ***Dyckia brevifolia* Baker** BRAZIL. Santa Catarina: Apiúna, 22/X/2012, *Santos-Silva 188* (RB); Ascurra, Blumenau, 26/XI/1950 *Reitz 3707* (HBR; US); Concordia, 9/XII/1964, *Smith 13930* (HBR; NY; R; US); Ibirama, 15/XI/2011, *Voltolini s.n.* (ICN 175034); Indaial, 14/XII/1950, *Reitz 3988* (HBR; US); *idem*, 15/XI/2011, *Voltolini s.n.* (ICN 175035); Ibirama, 22/X/2012, *Santos-Silva 187* (RB). ***Dyckia choristaminea* Mez** BRAZIL. Rio Grande do Sul: Arroio dos Ratos, 26/VI/1976, *Hagelund 10316* (ICN); *idem*, 18/X/1976, *Hagelund 10547* (ICN); Bagé, 2/IV/1985, *Mattos 28853* (HAS); Guaíba, 22/X/1988, 12/XII/1993, *Meira 143* (ICN); *idem*, 12/XII/1993, *Meira 144* (ICN); *idem*, 12/XII/1993, *Meira 145* (ICN); *idem*, 27/XI/2007, *Dettke 79* (ICN); *idem*, 5/X/1994, 21/X/1972, *Lindman s.n.* (ICN 20724); Porto Alegre, 15/X/1892, *Lindman A-439* (S); *idem*, 30/IX/1939, *Augusto 621* (ICN); *idem*, 10/XII/1979, *Bueno 1982* (HAS); *idem*, X/1985, *Waechter 2136* (ICN); *idem*, 17/X/1993, *Matzembacher 152* (ICN); *idem*, IV/1996, *Leme 3461* (HB); *idem*, 1/IV/1996, *Strechl 1535* (HAS); *idem*, X/2004, *Grings 135* (ICN); *idem*, 13/X/2006, *Setubal 82* (ICN); Viamão, 6/1993, *Nilson s.n.* (HAS 36090); Viamão-Itapuã, 27/X/1984,

Falkenborg 1791 (FLOR); *idem*, 10/I/1994, *Strechl* 1340 (HAS); *idem*, 20/X/1995, *Strechl* 1412 (HAS). ***Dyckia cinerea* Mez** BRAZIL. Minas Gerais: Caraça, VI/1885, *Gounelle* s.n. (P); Itacolomi, 20/IX/1896, *Schwacke* 12515 (R; RB); Mariana, 25/05/2000, *Goldschmidt & Coelho de Paula* 42 (SPF); Mariana, 28/III/2008, *Messias* 1923 (OUPR); Ouro Preto, 29/IX/2008, *Carmo* 3444 (SP); Santa Bárbara, 25/IV/1980, *Leme* 1548 (HB); São Gonçalo do Rio Abaixo, 23/IV/2002, *Lombardi et al.* 4747 (BHCB). ***Dyckia delicata* Larocca & Sobral** BRAZIL. Rio Grande do Sul: Barros Cassal, XII/1996, *Sobral* 96-001 (HB; ICN; MBM; US; ZSS); *idem*, 20/III/1998, *Sobral* s.n. (HAS 36098). ***Dyckia densiflora* Schult. & Schult.f.** BRAZIL. Minas Gerais: Ouro Preto, 22/IV/2000, *Vasconcelos* s.n. (BHCB 52435); Santa Bárbara, 31/X/1960, *Duarte* 964 (HB); Serra da Piedade, IX/1998, *Mauricio* s.n. (HB 84207). ***Dyckia dissitiflora* Schult. & Schult.f.** BRAZIL. Bahia: Abaíra, 26/XII/1988, *Harley* 27810 (CEPEC); *idem*, 25/XII/1992, *Harley* 50367 (CEPEC; K; SP; SPF; NY; US); *idem*, 25/I/1992, *Stannard* 50813 (CEPEC; K; SPF); *idem*, 28/I/1992, *Stannard* 50855 (CEPEC; K; SPF; US); Érico Cardoso, 26/XII/2004, *Forzza* 3831 (RB; SPF); Feira de Santana, 6/V/1988, *Queiroz* 2146 (HUEFS); Itatim, 14/XII/1996, *Melo* 1894 (SP); *idem*, 14/XII/1996, *Melo* 1899 (SP); Jacobina, 18/VIII/2008, *Ribeiro* s.n. (SP 412971); Morro do Chapéu, Ferro Doido, 1/III/1977, *Harley* 19222 (NY); Mucugê, 18/X/2006, *Machado* 34 (RB); Rio de Contas, I-IV/1974, *Harley* 15264 (CEPEC); *idem*, 11/XI/1988, *Harley* 26112 (CEPEC; NY); *idem*, 20/XI/1988, *Harley* 26227 (SPF); *idem*, 22/VI/1979, *Mori* 12486 (CEPEC); *idem*, 26/XII/1988, *Harley* 26609 (CEPEC; SPF); *idem*, 5/III/1994, *Roque* s.n. (SPF 96412); *idem*, 23/III/1996, *Jardim* 769 (CEPEC); Santa Teresinha, 29/X/1995, *Melo* 1362 (SP). ***Dyckia duckei* L.B.Sm.** BRAZIL. Pará: Ariramba, 4/XII/1910, *Ducke* s.n. (MG 11345, US); Marabá, 10/VIII/1983, *Joly* 14818 (UEC); Jaramacará, 28/IX/1913, *Ducke* s.n. (MG 14856); Óbidos, 4/XII/1987, *Farney & Batista* 2079 (MO); Parauapebas, 23/XI/2009, *Ribeiro* 1339 (RB); Serra do Cachimbo, 15/IX/1955, *Pereira* 1781 (IAN); *idem*, 14/XII/1956, *Pires et al.* 6257 (IAN; NY). ***Dyckia dusenii* L.B.Sm.** BRAZIL. Paraná: Almirante Tamandaré, 2/X/1959, *Hatschbach* 959 (SP); *idem*, 4/X/1914, *Jonsson* 1029-A (GH; S); Balsa Nova, 4/X/1963, *Hatschbach* 10252 (MBM); *idem*, 7/IX/1967, *Hatschbach* 17089 (US); Imbituva, 23/X/1960, *Hatschbach* 7496 (MBM, US); Lapa, 4/XI/1966, *Hatschbach* 15214 (MBM, US); Laranjeiras do Sul, 24/X/1975, *Hatschbach* 37335 (MBM); Mauá da Serra, 16/VIII/2011, *Ferreira* 207 (FUEL); Palmeira, 4/X/1963, *Hatschbach* 10252 (US); *idem*, 21/I/1965, *Smith* 14942 (HBR; R; US); Porto Amazonas, 5/IV/1916, *Dusén* 18081 (GH; MO; S); Serrinha, 22/XI/1909, *Dusen* 8686 (S); Tibagi, 6/VIII/1966, *Hatschbach* 14686 (MBM, US). Santa Catarina: Campo Alegre, 15/III/1951, *Reitz* 3938 (HBR; US). ***Dyckia elisabethae* Winkler** BRAZIL. Rio Grande do Sul: Arroio dos Ratos, XI/1975, *Winkler* 741 (ICN); *idem*, 3/12/1989, *Caldas* s.n. (HAS 31011); *idem*, 20/XII/1994, *Strehl* 1293 (HAS); Barra do Ribeiro, 18/X/1995, *Strehl* s.n. (HAS 101003); *idem*, 4/XII/2000, *Strechl* 417 (HAS); Giruá, 10/1966, *Hagelund* 4985 (ICN); Guaíba, III/1996, *Irgang* s.n. (HAS 101001); *idem*, XII/1996, *Irgang* s.n. (HAS 101002); Porto Alegre, 20/X/2000, *Strechl* s.n. (HAS 103102); Taquari, XI/1986, *Sobral et al.* 5179 (ICN). ***Dyckia encholirioides* (Gaudich.) Mez** BRAZIL. Paraná: Caiobá, 30/VII/1939, *Kulmann* s.n. (SP 41587); Guaratuba, X/1951, (MBM); Paranaguá, s.d., *Foster* 435 (RB; GH); Paranaguá *Frenzel* s.n. (RB). Santa Catarina: Armação do Sul, 17/X/1947, *Rohr* 654 (LIL); Canavieira, 12/XII/1951, *Reitz* 4264 (HBR); Florianópolis, s.d., *Rohr* 654 (RB); *idem*, s.d., *Schenck* 619 (RB); *idem* 12/XII/1950, *Duarte* 3335 (RB); *idem*, 6/II/1964, *Santos* 1815 & *Sacco* 2077 (HB; LP); *idem*, 10/X/2009, *Schmitz* s.n. (ICN 162613); *idem*, 1/IX/1973, *Girard* s.n. (ICN 22107); Garopaba, 13/X/1989, *Pankewski* 96 (HAS 28208). ***Dyckia espiritosantensis* Leme & A.P.Fontana** BRAZIL.

Espírito Santo: São Roque do Canaã, 30/IX/2006, *Leme* 6930 (MBML; RB). ***Dyckia ferruginea* Mez** BRAZIL. Mato Grosso: Camizão, 24/IX/1940, *Foster* 1082 (GH; US); Corumbá 5/X/1999, *Pott* 4005 (CPAP); Jaciara to Rondoniópolis, VII/1968, *Reitz* 6891 (HBR; US); Jacobina, 10/VII/1892, *Kuntze* s.n. (GH, B). Mato Grosso do Sul: Bonito, 16/VI/2006, *Silva* 4946 (ALCB); Corguinho, 2/X/2013, *Vinci-Carlos* 425 (CGMS). ***Dyckia floribunda* Grisebach** ARGENTINA. Prov. Catamarca: Dept. Capital: Quebrada Del Tala, 10/X/1964, *Hunziker* 17641 (CORD). Dept. Catamarca: La Quebrada, 21/IX/1946, *Dimitri & Piccinini* 170 (BAB); Valle da Catamarca, II/1941, *Parodi* s.n. (BA 47287); Valle da Catamarca, II/1941, *Parodi* 13988 (LP). Prov. Córdoba: Dept. Capital: Córdoba, 16/X/1901, *Stuckert* 10194 (CORD); Córdoba, Valle de Los Reartes, 15/I/1920, *Castellanos* s.n. (BA 29859). Dept. Catamuchita: Potrero Arroyo Calmayo, 11/IX/1895, *Kurtz* 8781 (CORD). Dept. de Colón: Sierra Chica 31/XII/1902, *Stuckert* 12486 (LP); *idem*, 18/I/1931, *Stuckert* 23642 (CORD); *idem*, 20/X/1946, *Hunziker* 7005 (CORD; SPF; SP); *idem*, 12/X/1960, *Espinar* 982 (CORD). Dept. Ischilín: Ischilín, 29/XI/1990, *Subils* 4512 (CORD); *idem*, 2/III/1965, *Hunziker* 18233 (CORD; LP). Dept. Punilla: Punilla, Sierra Chica, XII/1875, *Hieronymus* 566 *pro part* (B; CORD; US); Punilla, Cosquín, 2/X/1983, *Bernardello* 417 (CORD). Dept. Rio Cuarto: Alpa Corral, 19/XI/1982, *Subils & Moscone* 3092 (CORD); *idem*, 19/XI/1982, *Subils & Moscone* 3103 (CORD); *idem* 22/XI/1987, *Subils* 4205 (CORD). Dept. Rio Seco: Arroyo São Miguel, 17/I/1972, *Subils et al.* 21741 (CORD). Dept. Santa Maria: Potrero de Garay, 5/I/1917, *Kurtz* 16292 (CORD); La Isla, I/1940, *Hunziker* 2339 (CORD). Dept. San Javier: Las Tapias, 5/II/1939, *Castellanos* s.n. (BA 30562). Prov. La Rioja: Dept. Gral Belgrano, 5/V/1983, *Bazan & Lopez* 33 (CORD). Dept. Famantina: La Rioja: Chileceto, II/1905, *Stuckert* s.n. (CORD 15040); Sierra Famantina, 18/XII/1915, *Hosseus* 1953 (CORD); Guanchin, 21/XI/1927, *Castellanos* 27/1903 (BA); Cachiyuyal, 4/II/1928, *Castellanos* 28/97 (BA); Nonogasta to Guanchin, 21/XI/1927, *Castellanos* 27/1904 (BA). Prov. Salta: Dept. Alemania, 8/II/1935, *Castellanos* 1937 (BA); Coronel Moldes, 15/VII/1945, *Meyer* 9156 (LIL); *idem*, 12/II/1943, *Bartlett* 19662 (SI); Dept. Guachipas, I/1937, *Job* 1478 (LP); Quebrachal Blanca, 06/XII/1958, *Bukart* 20884 (CTES). Dept. La Viña, 13/XII/1985, *Palaci* 369 (CORD); *idem*, 9/XI/2002, *Coccuci* 2062 (CORD). Dept. Rosario de La Frontera, 28/XII/1923, *Venturi* 2880 (US); *idem*, 6/XI/1985, *Palaci* 197 (CORD; LP). Dept. La Candelaria: Unquillo, 7/IX/1931, *Schreiter* 6736 (BM; F; LIL; UC). Prov. San Juan: Dept. Valle Fertil, 12/XII/1963, *Hunziker* 16664 (CORD). Prov. San Luis: Dept. Belgrano: Quijadas, 6/III/1963, *Hunziker & Cocucci* 16377 (CORD). El Totoral, 19/II/1895, *Kurtz* 8575 (CORD). Cerro Varela, 22/X/1925, *Castellanos* 25/2782 (BA). Sierras Del Gigante, 15/XI/1926, *Castellanos* 26/2039 (BA). PARAGUAY. Dept. Central: Jaguarai, 31/I 1966, *Krapovickas et al.* s.n. (CTES 146412; US); Paraguari: Cerro Hú, 4/IX/1916, *Rojas* s.n. (BA, MVM). ***Dyckia fosteriana* L.B.Sm.** BRAZIL. Paraná: Balsa Nova, 6/X/2012, *Santos-Silva* 165 (RB); Campina Grande do Sul, 5/X/1967, *Hatschbach* 17310 (US; MBM); Ponta Grossa, s.d., *Foster* 1154 (GH); Sengés, 8/X/1971, *Hatschbach* 27198 (NY); Serra São Luis de Puruna, 1940, *Foster* 1154 (GH). ***Dyckia gouveiana* Leme & O.B.C.Ribeiro** BRAZIL. Minas Gerais: Gouveia, 27/XI/2010, *Leme* 8485 (RB); *idem*, 11/XII/2011, *Leme* 8600 (RB). ***Dyckia hebdingii* L.B.Sm.** BRAZIL. Rio Grande do Sul: Arroio dos Ratos, 3/XII/1989, *Caldas* 225 & *Strehl* 1435 (HAS); *idem*, 16/I/1995, *Strehl* 1280 (HAS); Barra do Ribeiro, 16/I/1995, *Salomoni* 1277 (HAS); Encruzilhada do Sul, 5/I/1973, *Lutzenberger* s.n. (ICN 21186); Guaíba, 23/I/1972, *Irgang* s.n. (ICN 9542); *idem*, XII/1989, *Caldas & Strehl* 1141 (HAS); Mariana-Pimentel, 29/XII/1995, *Strehl* 1451 (HAS); Porto Alegre, s.d., *Hebding* s.n. (US 2586797A). ***Dyckia hohenbergioides* Leme & E. Esteves** BRAZIL. Bahia: Botuporã,

IX/1997, *Pereira E-385* (HB 87081); Seabra, X/1997, *Pereira E-385* (HB; RB). ***Dyckia ibicuiensis* T. Strehl** BRAZIL. Rio Grande do Sul: Santa Maria, s.d., *Silveira & Mansan 11260* (HAS); *idem*, s.d., *Silveira 11265* (HAS); *idem*, 10/XII/1992, *Silveira 11296* (HAS); *idem*, 29/I/1993, *Strehl 1123* (HAS); São Pedro do Sul, 11/I/1984, *Dutra 170* (HAS). ***Dyckia ibiramensis* Reitz** BRAZIL. Santa Catarina: Ibirama, 5/II/1956, *Reitz & Klein 2635* (HBR; US); *idem*, 10/XI/2012, *Santos-Silva 195* (RB); *idem*, 13/XI/1956, *Klein & Gevieski 7623* (B); *idem*, 18/XII/2011, *Voltolini s.n.* (ICN 175032). ***Dyckia jonesiana* T. Strehl** BRAZIL. Rio Grande do Sul: Caçapava do Sul, 6/XII/1989, *Silva & T. Strehl 1172* (HAS 66 176); *idem*, 10/XII/1992, *Strehl 1098* (HAS 31720); *idem*, 4/XI/1994, *Silva 170 & Strehl 2143* (HAS 66447). ***Dyckia kranziana* Leme** BRAZIL. Mato Grosso: Rondonópolis, 24/VIII/2006, *Leme 6826* (HB; RB). ***Dyckia lunaris* Leme** BRAZIL. Goiás: Alto Paraíso de Goiás, IX/2000, *Forzza 1626* (HB; RB). ***Dyckia macedoi* L.B. Smith** BRAZIL. Minas Gerais: Brumadinho (SPF 87252); Diamantina, 25/II/1987, *Zappi et al. s.n.* (SPF 46903); *idem*, 14/III/1999, *Souza 22220* (RB); *idem*, 31/I/2000, *Forzza & Mello-Silva 1510* (SP); *idem*, 25/VI/2008, *Leme et al. 7484* (HB); *idem*, *Rapini & Kawasaki 746* (SPF); Jaboticatubas, 2/XI/1972, *Joly 3511* (SP); *idem*, 12/II/1996, *Forzza 162* (SPF); *idem*, 18/XI/2009, *Louzada 153* (SP); Lagoa Santa, 16/I/1951, *Pires & Black 2887* (IAN; US); Santana do Pirapama, 5/III/2009, *Zappi 1681* (RB; SPF); *idem*, 13/XI/2009, *Zappi 2343* (RB; SPF); Santana do Riacho, Serra do Cipó, 15/I/1951, *Macedo 2974* (US); *idem*, 16/IX/1983, *Araújo 9170* (RB); *idem*, 21/III/1983, *Wanderley et al. 582* (SP); *idem*, 16/IX/1983, *Arraias s.n.* (SPF 31902); *idem*, 13/VIII/1985, *Hutchison 8906* (RB, NY); *idem*, 7/IX/1987, *Wanderley et al. s.n.* (SP 221692). ***Dyckia machrisiana* L.B. Smith** BRAZIL. Distrito Federal: Brasília, 17/VIII/1995, *Silva 2713* (IBGE). Goiás: Alto Paraíso de Goiás, *Esteves E-410* (HB); Cavalcante, 16/X/2001, *Pereira-Silva 5625* (CEN 43912); Cristalina, 14/III/1998, *Proença 1929* (UB 8076); Formosa, 30/III/1966, *Irwin et al 14321* (NY; US); Mambai, 19/II/2003, *Mendonça 5260* (RB); São João da Aliança, 14/IV/1996, *Dawson 14153* (R; US); Vianópolis, 2012, *Monteiro 389* (RB). ***Dyckia maracasensis* Ule** BRAZIL. Bahia: Maracás, IX/1906, *Ule 7019* (B11439; F); *idem*, 19/X/1948, *Foster 2459* (US); *idem*, 17/XI/1978, *Mori et al. 11093* (CEPEC; RB); *idem*, 13/X/1983, *Carvalho et al. 1990* (CEPEC; RB); *idem*, 15/VI/1982, *Martinelli 8511* (RB). ***Dyckia marnier-lapostollei* L.B. Smith** BRAZIL. Goiás: Alto Paraíso, 15/VI/1969, *Esteves 11* (HB); Cavalcante, 22/X/1965, *Irwin 9517* (NY); Cristalina, 2/IX/1965, *Irwin et al. 9938* (NY); *idem*, *Braun 460* (B); Cocalzinho de Goiás, 23/XI/2011, *Forzza 6738* (RB); Pirenópolis, 28/V/2011, *Silva 7325* (RB). Minas Gerais: Patrocínio, 31/I/1970, *Irwin 25819* (NY). ***Dyckia maritima* Baker** BRAZIL. Rio Grande do Sul: Alegrete, *Sobral 4602* (ICN 89090); Arroio dos Ratos, 20/VII/1974, *Hagelund 8264* (ICN); *idem*, 27/III/1977, *Hagelund 11315* (ICN); Barra do Ribeiro, 15/I/1981, *Mattos et al. 22309* (HAS); Caçapava do Sul, 16/XII/2008, *Dettke & Santos 145* (ICN); Caracol-Canela, 4/I/1973, *Porto & Souza s.n.* (ICN 22081); *idem*, 25/XII/1974, *Arzivenco s.n.* (ICN 42729); *idem*, II/1986, *Sobral & Silva 4937* (ICN 81461); Dom Pedro de Alcântara, 14/II/2008, *Fagundes 1* (ICN); Gramado, 12/XII/1968, (ICN 5697); Nova Petrópolis, 29/I/1973, *Krapovickas 22991* (CTES; LP, NY); *idem*, 29/I/1973, *Krapovickas 22991* (ICN); Rio Pardo, s.d., *Jurgens 177* (RB; B); Salvador do Sul, s.d., *Leite 2640-B* (RB); Sapucaia do Sul, 19/III/1987, *Fernandes 285* (ICN); Santa Maria do Herval, Cascata do rio Feitoria, 30/XII/1989, *Strehl 1602* (HAS 66113); São Leopoldo, II/1942, *Leite 2640^a* (RB; BA); São Leopoldo, s.d., *Leite 220* (SP); São José do Herval, 11/V/2001, *Klein s.n.* (HVAT 710); São Marcos, 6/V/2000, *Vieira 1547* (RB); Taquari, 3/I/1996, *Sobral et al. s.n.* (ICN 111082); Torres, 26/II/1952, *Smith 5824* (NY); Torres, 26/I/1973, *Hatschbach 31178* (MBM); Torres,

14/I/1982, *Krapovickas* 37659 (CTES); Torres, X/1988, *Waechter* 2351 (ICN); Viamão, Praia da Onça, 31/I/1968, *Irgang* 344 (ICN); Viamão, 28/III/1996, *Waldemar* s.n. (ICN 111516); *idem*, 14/I/2003, *Pinheiro* 421 (ICN); *idem*, *Strehl* 1268 (HAS); *idem*, *Strehl* 1269 (HAS); *idem*, *Strehl* 1270 (HAS). SANTA CATARINA: Ararangua, Peroba, 28/IX/1944, *Reitz* C-755 (GH, HBR); *idem*, 25/XII/1944, C-909 (GH, HBR, US); *idem*, *Reitz* 1369 (R); Sombrio, 1947, *Reitz* (HBR). ***Dyckia martinellii* B.R.Silva & Forzza** BRAZIL. Rio de Janeiro: Paraty, 30/V/1987, *Martinelli* 12089 (RB); *idem*, s.d., *Silva* 961 (RB); *idem*, 5/II/2003, *Forzza* 2386 (RB); *idem*, 27/IX/1990, *Martinelli* 14413 (RB). ***Dyckia microcalyx* Baker** ARGENTINA. Depto. Bella Vista: Corrientes, 29-31/X/1974, *Tressens et al.* 700 (CTES). Dept. Capital: Corrientes, 17/XI/1954, *Carnevali* 472 (CTES). Dept. Esquina: Corrientes, 15/III/1975, *Krapovickas* 27826 (CTES). Misiones: Yguaçu Falls; I/1918, *Hauman* 1098 (BA); X/1939, *Rojas* 8673 (GH). Dept. Iguazú: Parque Nacional Del Iguazú, Isla San Martin, 11/XII/2011, *Santos-Silva* 83 (RB). Dept. Iguazú, Parque Nacional Del Iguazú, Caminho na trilha baixa em direção ao embarcadouro para bote para Isla San Martin, 11/XII/2011, *Santos-Silva* 85 (RB); Yguazi Falls, *Osten & Rojas* 8097 (MVM; GH). BRAZIL. Mato Grosso do Sul: Campo Grande, 27/IX/1940, *Foster* 1094 (GH). Paraná: Capitão Leônidas Marques, 10/X/2012, *Santos-Silva* 185 (RB); Foz do Iguaçu, 9/X/1946, *Kuhlmann* s.n. (RB 57722); *idem*, 11/XI/1963, *Pereira* 7834 & *Hatschbach* 10449 (HB); Laranjeiras do Sul, 23/IX/1968, *Hatschbach & Guimarães* 19820 (HB); Três Barras do Paraná, 16/X/1997, *Silva et al.* 2174 (FLOR 28836; SPF 132.450). Rondônia: Porto Velho, Cuiabá, km 645, 8/III/1976, s.c. (RB 204895). PARAGUAY. Central: Cerro de Acahy, VI/1936, *Rojas* 7513 (GH); Cerro Pelado, I/1905, *Hassler* 8787 (G, NY, F); Cerro Pelado, *Jorgensen* 3962 (BAF); GUAIRÁ: Cerro Peró, 17/II/1989, *Zardini & Velasquez* 10842 (FCQ); Cerro Peró, 4/XII/2012, *Santos-Silva* 198 (RB); Alto Parana, s.d., *Fiebrig* 5941 (G, K, US). ***Dyckia milagrensis* Leme** BRAZIL. Bahia: Milagres, 4/VI/1996, *Leme* 3391 (HB). ***Dyckia minarum* Mez** BRAZIL. Minas Gerais: Barbacena, s.d., *Glaziou* 18571 (K, RB); Belo Horizonte, s.d., *Foster* 530 (RB); Belo Horizonte, s.d., *Hoehne* s.n. (SP 44788); *idem*, 23/IV/1933, *Mello Barreto* 4909 (R); Caeté, Serra da Piedade, *Hoehne* 624 (RB); Caldas, 3/X/1868, *Regnell II*-283 (US); *idem*, s.d., *Regnell III*-529 (RB); Corinto, 2/X/1965, *Matos et al.* 30 (SP); Delfinópolis, Trilha Escada de Pedra, s.d., *Volpi* 504 (RB 443911); *idem*, 19/XI/1988, *Krieger* 540 (SPF); *idem*, 11/IV/2002, *Pacheco* 107 (RB); Diamantina, 15/IX/1985, *Hatschbach* 49731 (HB); Indianápolis, 25/IX/1990, *Gotsbergger* s.n. (SP 346467); Lavras, 11/V/1990, *Arbo et al.* 3886 (SPF); Ouro Branco, 9/III/1995, *Souza* 8089 (ESA); Patrocínio, 21/X/1986, *Pedralli* s.n. (BHCB 15512); Pirai do Sul, 22/IX/1997, *Kranz* 602 (SP); Presidente Juscelino, 20/XI/1991, *Leme* 1799 (HB); Sacramento, 7/IX/2002, *Mello-Silva et al.* 1952 (SPF, RB); Santa Bárbara, 20/VII/1977, *Martinelli* 2735 (RB); São Roque de Minas, 18/X/1994, *Romero et al.* 1343 (SP); *idem*, 7/II/2002, *Mello-Silva* 1952 (RB); *idem*, 22/XI/1998, *Farinaccio* 221 (SPF); *idem*, 9/XI/2002, *Mello-Silva* 1993 (RB); *idem*, 9/XI/2002, *Mello-Silva* 2000 (RB; SPF); São Thomé das Letras, 13/VII/1950, *Brade* 20479 (RB); *idem*, 21/VII/1978, *Martinelli* 4814 (RB); Uberaba, *Duarte* 821 (RB); Vazante, 27/XI/2007, *Rezende* 2168 (RB). São Paulo: Pedregulho, 25/IX/2002, *Mello-Silva* 1950 (RB); Estreito, s.d., *Ferreira* 1502 (RB; SP). ***Dyckia mirandiana* Leme & Z.J.G.Miranda** BRAZIL. Goiás: Alto Paraíso de Goiás, 24/VII/2004, *Miranda* s.n. (HB 93260). ***Dyckia montezumensis* Leme** BRAZIL. Minas Gerais: Montezuma, 26/V/2010, *Leme* 8315 (RB). ***Dyckia monticola* L.B. Smith & Reitz** BRAZIL. Santa Catarina: Campo Alegre, 5/IX/1957, *Reitz & Klein* 4789 (HBR; US); *idem*, 20/V/1998, *Barbara* 33 (RB); *idem*, 16/IX/1990, *Leme & Silva* 1664 (HB). ***Dyckia nana* Leme & O.B.C.Ribeiro** BRAZIL. Minas Gerais: Diamantina Estrada Diamantina

a Conselheiro Mata, 25/VI/2008, *Leme* 7484 (RB). ***Dyckia niederleinii* Mez** ARGENTINA. Prov. Misiones: Além a Cerro Azul, 28/XI/1972, *Schinini* 5572 (ICN); Bonpland, 04/II/1906, *Van de Venne* s.n. (BA; SI; 31861); Iguazu, I/1922, *Molfino* s.n. (BA); Loreto, 16/VII/1927, *Burkart* 1529 (BAA); Makako, 01/IX/1945, *Schwarz* 1420 (LIL); Nacanguazii, I/1918, *Hauman* s.n. (BA); *idem*, 25/X/1947, *Schwarz* 5029 (LIL); San Ignacio, *Hassler* 142 (G); Santa Ana, 08/VIII/1937, *Moreau* s.n. (BA 21077); *idem*, 17/III/1884, *Niederlein* 229 in part (B, F); *idem*, 7/I/1913, *Rodriguez* 701 (BA; LIL; SI). ***Dyckia pectinata* L.B. Smith & Reitz** BRAZIL. Minas Gerais: Cambuquira, 26/II/1976, *Davidse & Ramamoorthy* 10658^a (MO; SP); Conceição do Rio Verde, 16/VI/1957, *Pabst* 4129 (HB, US); *idem*, 16/VII/2004, *Kranz* 78 (RB); *idem*, 21/XII/2007, *Trindade-Lima et al.* 247 (SP); Ouro Preto, 25/X/1896, *Schwacke* 12632 (RB); *idem*, 13/IX/1896, *Schwacke* 12503 (RB). ***Dyckia pernambucana* L.B.Sm.** BRAZIL. Paraíba: Triunfo, 28/IX/1982, *Fernandes* s.n. (EAC). Pernambuco: Águas Belas, 29/XI/1969, *Andrade-Lima* 695614 (IPA); Brejo da Madre de Deus, 5/II/1965, *Lima* 65-4275 (IPA; SP; US); Pesqueira, 26/XII/1996, *Siqueira-Filho* 444 (UFP); Serra Dois Irmãos, Afranio, 2/IX/1961, *Lima* 61-3621(RB); Triunfo, 26/VII/1976, *Andrade-Lima* 768226 (IPA). ***Dyckia pottiorum* Leme** BRAZIL. Mato Grosso do Sul: Corguinho, 16/IX/2011, *Leme et al.* 8579 (HB; RB); *idem*, 16/IX/2011, *Leme et al.* 8578 (RB); *idem*, 16/IX/2011, *Leme et al.* 8580 (RB). ***Dyckia pseudococcinea* L.B.Sm.** BRAZIL. Rio de Janeiro. Niterói, Maricá, s.d., *Ormino* s.n. (RB 424780); *idem*, s.d., *Silva* 885 (RB); *idem*, III/1989, *Augusto* s.n. (HB 84601); *idem*, 25/X/2012, *Vasconcellos* 370 (RB). ***Dyckia pulquinensis* Witt.** BOLIVIA. Santa Cruz: Valle Grande, Pulquina, IV/1911, *Herzog* 1849 (B, GH, F); *idem*, X/1962, *Cardenas* 6075 (US); Valle near Comarapa, 13/I/1965, *Vogel* 477 (US); *idem* 13/XII/2002, *Forzza et al.* 2330 (RB; SPF; CTES; LPB; SI). ***Dyckia ragonesei* Castellanos** ARGENTINA. Prov. Córdoba: Dept. San Justo: Córdoba, Mar Chiquita, 4/I/1932, (CORD 24069); *idem*, 28/XII/1954, *Hunziker* 10533 (CORD); *idem*, 21/XII/1955, *Hunziker* 11427 (CORD). Dept. Union: Bell Ville, II/1954, *Torriglia* s.n. (CORD 1352). Prov. Corrientes: 22/IV/1972, *Schinini* 4677 (CORD); Prov. Del Chaco: Enrique Urion, 29/XII/1951, *Schulz* 8137 (CORD). Prov. Entre Rios: Diamante, 15/XII/1960, *Burkart* 22153 (SI); *idem*, 20/XII/1963, *Gamerro* 1332 (LP; US). Prov. Formosa: Dept. de Patiño, XII/1970, *Schulz* 17756 (CORD); *idem*, XII/1970, *Schulz* 17764 (CORD). Prov. Santa Fé: Arroy Del Toba, 6/I/1937, *Ragonese* s.n. (BA 19465); Dept: San Jerónimo Coronda, 21/I/1937, *Castellanos* s.n. (BA); *idem*, 14/XII/1937, *Ragonese* s.n. (BA); Rio Toba to Malabrigo, 6/I/1937, *Castellanos* s.n. (BA 19465; US). Prov. Santiago Del Estero: Dept. Atamasqui, 5/Xi/1967, *Hunziker* 19517 (CORD); *idem*, XII/1967, *Hunziker* 19518 (CORD). Dept. Matará, 29/XI/1928, *Gomez* s.n. (BA 28/662). PARAGUAY. Filadélfia, 7/XII/2012, *Santos-Silva* 199 (RB). ***Dyckia rariflora* Schult. & Schult.f.** BRAZIL. Minas Gerais: Barão de Cocais, 9/II/1999, *Leitão* s.n. (BHCB 45741); *idem*, 22/VIII/2007, *Zappi* 843 (SPF); Belo Horizonte, *Laila* s.n. (OUPR 12998); Catas Altas, 21/II/1992, *Leme* s.n. (RB 517961); *idem*, 21/II/1992, *Leme & Nahou* 1848 (HB); Diamantina, 28/III/1970, *Irwin et al.* 28452 (NY); *idem*, 5/VI/1985, *Barros* 1111 (SP); Itabirito, 28/II/2013, *Souza et al.* s.n. (BHCB 166104); Jaboticatubas, 29/IV/1952, *Smith* 7065 (US); Mariana, 14/X/2006, *Mota* 3208 (BHCB); Ouro Branco, 18/V/2011, *Forzza* 6386 (RB); Rio Acima, 11/X/2007, *Carmo* 2715 (SP); Ouro Preto, VII/1894, *Schwacke* 10521 (RB); *idem*, *Martius* s n (M 0111436); *idem*, 4/VI/1978, *Fontella* 1044 (RB); *idem*, 17/IX/2010, *Louzada et al.* 172 (SP); Santana do Riacho, Serra do Cipó, 26/IV/1978, *Martinelli* 4347 (RB); *idem* 21/III/1983, *Wanderley et al.* 581 (SP); Serro, 5/VII/1996, *Souza* 11806 (RB). ***Dyckia remotiflora* Otto & Dietrich** ARGENTINA. Department Unknown: Cerro Pan de Azúcar, IV/1938, *Castellanos* s.n. (BA 47285);

Distrito Federal: Buenos Aires, Sierra de Tandil, *Spegazzini* 219 (LP). Prov. Entre Rios: Concordia, 19/I/1927, *Burkart* 918 (BA); Gualiguaychu, Galarza, XII/1877, *Lorentz* 1239 (K). BRAZIL. Rio Grande do Sul: Arroio dos Ratos, 28/X/1974, *Hagelund* 8125 (ICN); *idem*, 28/X/1977, *Hagelund* 11980 (ICN); *idem*, 22/VIII/1979, *Hagelund* 13241 (ICN); Bom Jesus, 27/XI/1977, *Camargo* 5498 (HAS); Butia, 15/XI/2000, *Gonçalves & Lorenzi* 604 (SPF); Caçapava do Sul, s.d., *Sellow* 3247 (RB); Capão do Leão, 9/XI/1994, *Jarenkow* 2464 (MBM); Caxias do Sul, 15/XII/1974, *Hagelund* 8762 (ICN); Esmeralda, 23/XI/1988, *Waechter* 2415 (HAS); Guaíba, 9/IX/1985, *Silva Filho et al.* 567 (ICN); *idem*, 29/XI/1989, *Strehl* 1085 (HAS); *idem*, 29/XI/1989, *Strehl* 1085 (HAS); *idem*, 3/XII/1993, *Strehl* 1448 (HAS); *idem*, 24/X/2008, *Dettke* 122 (ICN); Porto Alegre, I/1942, *Leite* 218 (SP); *idem*, 3/III/1942, *Augusto & Besio* s.n. (ICN 19353); *idem*, 15/XI/1945, *Augusto* s.n. (ICN 19355); *idem*, 8/XII/1974, *Arzivenco* s.n. (ICN 42933); *idem*, 29/I/1980, *Bueno* 2154 (HAS); *idem*, 16/XII/1987, *Silveira* 4887 (HAS); Quaraí 7/XII/2005, *Machado* 723 (HUEFS); Santana da Boa Vista, XII/1986, *Sobral et al.* 5390 (ICN); São Salvador, 22/XII/1946, *Henz* (SI); São Sepé, 25/XI/2005, *Machado et al.* 614 (RB, SP); Tapes, 23/XI/1988, *Waetcher* s.n. (HAS 66125); Três Forquilhas, s.d., *Lindman* 935 (RB); Viamão-Itapuã, 28/XII/1975, *Arzivenco* s.n. (ICN 42335). Santa Catarina: Ararangua, 17/XII/1944 *Reitz C-862* (GH); Corupa, X/1993, *Caldas* s.n. (HAS 101026). URUGUAI. Canelones: Mosquitos, 20/X/1929, *Osten* 21768 (MVM); Playa Atlantida, 29/XII/1946, *Castellanos* s.n. (LIL). Santa Lúcia, XI/1874, *Arechavaleta* 2608 (MVM); Conchillas, 20/XII/1921, *Castellanos* (BA 1105); COLONIA: Conchillas, 20/XII/1921, *Castellanos* s.n. (BA). Capital federal: Villa Ortúzar, 4/XII/1961, *Schinini* 1976 (BAA); Cerro San Antonio, Piriápolis, 14/XII/1960, *Pabst* 5497 (HB); Cerro de San Juan, 22/I/1977, (CTES); Cerro Largo: Arroyo Zapallar, 24/XII/1961, *Legrand* 4667 (MVM). Cerro de las Cuentas, 23/II/1938, *Rosengurtt* B-2559 (GH; MFA). Dept. Maldonado: Abra de Perdomo, 21/X/1948, *Rosengurtt* B-5241 (MFA; MVM; US); Bella Vista, 21 XII/1953, *Legrand* 4322 (MVM); Cerro de Animo, 22/I/1950, *Legrand* 4211 (MVM); Cuchilla de La Ballena, 29/XII/1899, *Osten* 4033 (MVM); Maldonado, VIII/1867, *Cunningham* s.n. (K); Maldonado, 11/I/1999, *Coccuci & Sérsic* 1105 (CORD); Punta Ballena, 22/XI/1971, *Lombardo et al.* 10955 (MFA). Misiones: Dept. Apostóles, 13/X/1977, *Cabrera* 28740 (SI). Dept. de Rio Negro: Bote, XI/1927, *Herter* 82869 (US; SI; Z). Dept. Rocha: La Pedrera, I/1981, *Cabrera* 32325 (CTES; SI). Dept. de Santo Tome: Gobernador Virasoro, 5/XII/1970, *Krapovickas et al.* 17178 (CTES). Dept. Tacuarembó: Gruta de Los Cuervos, *Cabrera & Zulaoga* 32386 (SI). Lavalleja: Cerro Verdún, XII/1899, *Berro* 2052 (MFA); Cerro Verdún, 30/XI/2001, *Seijo et al.* 2616 (SI); Minas, 5/XII/1920, *Osten* 15243 (MVM); Minas Cerro Verdún, 18/XII/1911, *Berro* 6245 (MFA); Minas Cerro Verdún, 30/XI/2001, *Seijo et al.* 2616 (CTES). Montevideo: Carrasco, *Arechavaleta* 2609 (MVM); *idem*, 28/XI/1951, *Osten* 22371 (MVM); *idem*, 15/V/1883, *Sellow* s.n. (B); Piriapolis, 7/I/1912, *Osten* 5660 (MVM); Punta Del Leste, Maldonado, 10/IV/2008, *Schinini* 36998 (CTES); Punta Gorda, 7/XII/1936, *Legrand* 1027 (F; MVM); Rincon Del Cerro, 1/II/1870, *Fruchard* s.n. (US). Dept. Paysandu, 16/XI/1977, *Marchesi* 14286 (MFA); Chapicuy, 11/XI/1942, *Rosengurtt* B4186 (BA; GH; MFA; MVM); *idem*, 14/XI/1942, *Rosengurtt* B-3652 (BA; GH; MVM). Riviera: Cerro Miranãque, 10/IV/1984, *Bayce et al.* 17225 (MFA); Cuñapirú, 1928, *Wright* s.n. (BM); Pionera, Cuchilla Negra, near Franqueras, I/1941, *Legrand* 2473 (MVM); Cufiapiri, 1928, *Wright* s.n. (BM). Rocha: Santa Teresa, 1/XII/1954, *Legrand* 4387 (MVM). Soriano: Isletas, Mercedes, X/1898, XII/1898, *Osten* 3678 (MVM). ***Dyckia rondonopolitana* Leme** BRAZIL. Mato Grosso: Rondonópolis, 28/IV/2006, *Kranz* 123 (RB). ***Dyckia saxatilis* Mez** BRAZIL. Minas Gerais: Belo Horizonte, 10/III/1933,

Barreto 4085 (R); Belo Horizonte, 25/V/1987, *Peron* 189 (RB); Brumadinho, 23/XI/1989, *Martens* s.n. (SPF 87256); Cachoeira do Campo, XI/1892, *Schwacke* 8948 (B, RB); Caeté, 29/VIII/1985, *Siqueira* 1935 (RB); Conceição do Mato Dentro, 19/I/2008, *Santos* 657 (SP); *idem*, 13/X/2011, *Snak* 657 (HUEFS); Congonhas do Norte, 2/III/1998, *Forzza et al.* 715 (SPF); Datas- Serro, 22/XI/1991, *Leme & Nahoum* 1824 (HB); *idem*, 1/III/1998, *Forzza et al.* 679 (SPF); *idem*, 1/I/2000, *Forzza & Mello-Silva* 1518 (HB); Diamantina, 29/V/1955, *Pereira* 1622 (RB; US); *idem*, 14/IX/1971, *Hatschbach & Pelanda* 27951 (MBM); *idem*, 17/XI/1973, *Hatschbach & Ahumada* 31702 (MBM); *idem*, 30/X/1981, *Giulietti et al.* s.n. (SP 179518); *idem*, 31/X/1981, *Giulietti et al.* s.n. (SPF 21065); *idem*, 16/II/1991, *Menezes et al.* 5256 (CTES); *idem*, 28/II/1998, *Forzza et al.* 662 (SPF); Estrada Sopa-São João da Chapada Itabirito, 28/XI/2002, *Lima* 240 (RB); Ouro Preto, 5/XII/2007, *Saavedra* 607 (RB); Guinda, 14/XI/1971, *Hatschbach & Pelanda* 27951 (ICN); Itacambira, 14/III/1999, *Rapini & Kawasaki* 796 (SPF); Jaboticatubas, 6/III/1972, *Joly et al.* s.n. (SP 144949); *idem*, 3/XI/1978, *Wanderley* 515 (SP); Kubitschek, 1/III/1998, *Forzza* 679 (RB); *idem*, 1/I/2000, *Forzza* 1518 (RB); Lima Duarte, 26/XI/1989, *Leme* 1468 (HB); *idem*, 26/X/2004, *Monteiro* 36 (RB); *idem*, 9/XII/1998, *Martinelli* 15308 (RB); *idem*, 27/X/2004, *Monteiro* 41 (RB); *idem*, 31/VIII/2004, *Medeiros* 347 (RB); *idem*, 11/VIII/2006, *Monteiro et al.* 41 (SPF); Ouro Preto, s.d., *Strang* 709 (RB); Ouro Preto, 4/IX/1966, *Strang* 709 (HB); Paraopeba, 4/II/1958, *Heringer* 6111 (HB); Santana do Pirapama, 24/XI/2009, *Zappi* 2564 (SPF); Santana do Riacho, 7/XI/1980, *Cordeiro et al.* s.n. (SP, SPF 30447); *idem*, 6/X/1981, *Cordeiro* s.n. (RB 236438); *idem*, *Cordeiro et al.* s.n. (SPF 20328); *idem*, 23/X/1982, *Janaguassú et al.* (SPF); *idem*, 5/XI/1983, *Kamasaki et al.* (SPF); *idem*, 12/IX/1986, *Cavalcanti et al.* (SPF); *idem*, 11/X/1986, *Wanderley et al.* s.n. (SPF 44895); *idem*, 1/IV/1988, *Wanderley* s.n. (SP 224871); *idem*, 24/III/1991, *Pirani* s.n. (SPF 77809); *idem*, 26/I/1995, *Forzza* 143 (SPF); *idem*, 24/V/1996, *Forzza & Wanderley* 240 (SPF); *idem*, 20/X/1997, *Sano & Costa* 533 (SPF); *idem*, 23/XI/1991, *Leme* 1832 (HB); *idem*, 12/IX/1986, *Cavalcanti et al.* (SPF 44444); *idem*, 23/XI/1991, *Leme* 1833 (HB); *idem*, 5/XI/1983, *Kawasaki* s.n. (RB 270285); *idem*, 6/IV/1957, *Pereira* 2905 (RB); São Thomé das Letras, 30/X/1984, *Pirani et al.* s.n. (SPF 35537); Serro, 16/IV/2011, *Mello-Silva* 3435 (RB). ***Dyckia secunda* L.B.Sm.** BRAZIL. Bahia: Barreiras, 13/IV/1966, *Irwin et al.* 14723 (NY; US); Contendas do Sincorá, 4/XII/1992, *Leme* s.n. (RB 517962). ***Dyckia selloa* (K.Koch) Baker** BRAZIL. Paraná: Campo das Pedras, 29/IX/1970, *Hatschbach* 24853 (RB). Rio Grande do Sul: Bagé, 15/XII/1989, *Fernandes* 804 (ICN); Caçapava do Sul, 06/XII/1989, *Strehl* 1026 (HAS); *idem*, 26/XII/1990, *Fernandes* 871 (ICN); *idem*, 16/XII/1991, *Strehl* 978 (ICN); Júlio de Castilhos, 3/XII/2013, *Santos-Silva* 210 (RB); Rio Pardo, s.d., *Sellow* 1615 (RB). ***Dyckia strehliana* H.Büneker & R.Pontes** BRAZIL. Rio Grande do Sul: Júlio de Castilhos, *Büneker & Witeck* 101 (SMDB); *idem*, 3/XII/2013, *Santos-Silva* 208 (RB). ***Dyckia tenebrosa* Leme & H. Luther** BRAZIL. Minas Gerais: Andrequicé, 30/I/1995, *Leme* 2895 (HB); Nova Lima, 2/IV/2013, *Miranda et al.* 1078 (BHCB). ***Dyckia tobatensis* Hassler** PARAGUAY. Central Paraguay: Tobaty, *Hassler* 2099 (G; F). ***Dyckia tubifilamentosa* Wand. & G. Sousa** BRAZIL. Piauí: Município de Pedro II, 13/III/2008, *Wanderley* 2630 (SP). ***Dyckia ursina* L.B.Sm.** BRAZIL. Minas Gerais: Jaboticatubas, 12-13/VII/1940, *Foster* 636 (GH); *idem*, IV/1952, *Smith* 6697 (R; US); *idem*, 23/XI/1991, *Leme* 1837 (HB); *idem*, 4/VI/1976, *Martinelli* 915 (RB); Santana do Riacho, 14/XI/1984, *Arraias* s.n. (SPF 35035); *idem*, 31/V/1991, *Pirani et al.* (SP 276576); *idem*, 14/VII/1992, *Nahoum & Menezes* s.n. (HB 84589); *idem*, 4/IX/1995, *Forzza & Wanderley* 126 (SPF); *idem*, 23/IX/2011, *Santos-Silva* 23 (RB). ***Dyckia velascana* Mez** ARGENTINA. Prov.

Catamarca: Dept. Ambato: Cumbre de Narvaez, 10/XII/1965, *Hunziker et al.* 18529 (CORD). Dept. Andalgalá: Andalgalá, 30/XI/1972, *Cantino* 469 (CORD, SI); Andalgalá, 9/XII/1988, *Leuenberger et al.* 4650 (CORD). Cuesta de la Chilca, 11/VIII/1929, *Castellanos* 29/59 (BA); *idem*, 3/XI/1930, *Scheiter s.n.* (BA 6496). Dept. Capayan: Sierra de Ambato, 21/II/1964, *Hunziker & Fulvio* 17019 (LP); *idem*, 26/XII/1965, *Hunziker et al.* 18310 (CORD; LP; US). Dept. Capital: Quebrada del Tala, 21/X/1908, *Castillon* 815 (LIL). Dept. Fray Esquiú: Polcos, 4/X/1973, *Hunziker* 22316 (CORD). ***Dyckia vicentensis* T.Strehl** BRAZIL. Rio Grande do Sul: Alegrete, 6/I/2007, *Freitas* 83 (HVAT); Agudo, 8/XII/1995 *Strehl* 1443 (HAS 33942); *idem*, 18/XII/1996, *Strehl* 1597 (HAS 101005); Cerro Agudo, 2/XII/1985, *Sobral* 4562 (ICN); Santana do Livramento, 12/IV/1995, *Nilson* 393 (HAS); São Francisco de Assis, I/1995, *Hausen s.n.* (HAS 36094); São Vicente do Sul, 28/IX/1995 *Strehl* 1375 (HAS). Maria, IX/1915, *Schreiter s.n.* (BA 29855, F, LIL). Valle de Santa Maria, 25/IX/1944, *Castellanos s.n.* (LIL); Dept. Valle de Catamarca: Dique Las Pirquitas, 15/X/1966, *Boelcke s.n.* (BAA Número); *idem*, 1/II/1968, *Hunziker* 19891 (LP); *idem*, X/1966, *Fabris* 6569 (BAA). Prov. Córdoba: Dept. Punilla: Sierra Chica, 19/XI/1950, *Hunziker* 8519 (CORD); *idem*, 1/XII/1964, *Hunziker & Cocucci* 17672 (CORD); *idem*, 27/X/1961, *Espinar* 1539 (CORD); *idem*, 17/XI/1906, *Stuckert* 16232 (CORD); *idem*, 22/XII/1908, *Stuckert* 19641 (CORD); *idem*, 19/III/1917, *Hosseus* 861 (CORD); *idem*, 9/XI/1917, *Hosseus* 985 (CORD); *idem*, 1/XII/1964, *Hunziker & Cocucci* 17672 (CORD; LP); *idem*, 15/I/1965, *Hunziker* 17970 (LP). Dept. Calamuchita, 1/XI/1981, *Hunziker & Subils* 24109 (CORD); Taninga to Los Tuneles, 6/XII/1958, *Boelcke* 7739 (BAA). Prov. Jujuy: Ledesma, 19/X/1930, *Venturi* 10767 (SI); Tumbaya, 17/II/1929, *Venturi* 9073 (US). Prov. La Rioja: Dept. General Felipe Varela, Cuesta de Miranda, 09/I/2009, *Donadio* 103 (SI; SP); Dept. Famantina, Sierra de Famatina, 20/III/1950, *Hunziker & Caso* 4345 (BAB, CORD). Dept. Lavalle: Las Trancas, 17/I/1906, *Kurtz* 13170 (CORD); Yacuchiva, La Rioja to Chilecito, 1895, *Kurtz* 8697 (CORD). Dept. Sanagasta: Cuesta de La Puerta de Piedra, Sierra Velasca, 8-11/I/1879, *Hieronymous & Niederlein* 66 (B, CORD); Sierra de Velasco, 17/II/1944, *Hunziker* 4844 (CORD); *idem*, 29/I/1965, *Hunziker et al.* 18157 (CORD); *idem*, 18/X/1979, *Hunziker* 9909 (SI). Sierra de Los Lanos, *Birrum* 1083 (CORD). Prov. Salta: Dept. Cafayate: XI/1919, *Hauman* 1107 (BA); *idem*, 24/XI/1949, *Araque & Barkley* 19-Ar-365 (F); *idem*, XI/1919, *Castellanos* 1920 (BA); *idem*, 12/XI/1984, *Subils* 3560 (CORD); *idem*, 6/XI/2001, *Forzza et al.* 1949 (SPF). Coronel Moldes, VII/1934, *Horowitz s.n.* (BAA); *idem*, 6/I/1974, *Krapovickas & Cristobal* 24539 (CTES). Dept. La Viña, 27/III/1977, *Krapovickas & Schinini* 30613 (SI). Dept. Guachipas, 12/XI/1984, *Subils* 3573 (CORD). Prov. San Juan: Dept. Sarmiento: Pedernal, 1/III/1897, *Kurtz* 9857 (CORD); Dept. Iglessia, Tambillos, *Graeff* 1024 (CORD); Cuesta do Huaco, 8/XII/1957, *Leal & Roig* 18846 (SI). Dept. Valle Fertil, 28/XII/1997, *Biurrun et al.* 5050 (SI); *idem*, 9/III/1998, *Kiesling & Martinez* 5935 (SI). Prov. de San Luis: Alto Pencoso, II/1914, *Bruch & Carette s.n.* (LP). Dept. Ayacucho, Dique Lujan, II/1960, *Hunziker & Cocucci* 14967 (CORD). Arroyo Tigre, Merlo, *Pastore* 86 (SI); Dept. Belgrano Quijadas, 17/XI/1926, *Castellanos* 26/2038 (BA). Prov. de Santiago del Estero: Alto de Choya, 27/IX/1910, *Castillon s.n.* (BA 29854, LIL). Prov. Tucumán: Calalao Del Valle, 7/VI/1949, *Morello* 1218 (SI); Las Arcas, 30/XI/1926, *Venturi* 8669 (US); Las Arcas, 3/II/1927, *Schreiter* 5527 (LIL). ***Dyckia vestita* Hassler** PARAGUAY. Centurio, *Fiebrig* 5311 (G; F). ***Dyckia walteriana* Leme** BRAZIL. Paraná: Londrina, 21/IV/2006, *Kranz* 13 (HB; RB). ***Encholirium agavoides* Forzza & Zappi** BRAZIL. Minas Gerais: Santana de Pirapama, 17/II/2008, *Leme* 7225 (RB); *idem*, 19/II/2008, *Zappi* 808 (RB); *idem*, 28/II/2008, *Forzza et al.* 5475 (RB). ***Encholirium ascendens* Leme** BRAZIL. Minas

Gerais: Porteirinha, 23/VI/2008, *Leme* 7451 (HB; RB). ***Encholirium biflorum* (Mez) Forzza** BRAZIL. Minas Gerais: Diamantina, 28/I/1996, *Krieger* 14063 (RB); *idem*, *Forzza & Mello-Silva* 1466 (SPF; US; MBM); *idem*, 10/XII/2011, *Zanatta* 1120 (RB); *idem*, 13/II/2014, *Martinelli* 18289 (RB). ***Encholirium brachypodum* L.B. Smith & R.W. Read** BRAZIL. Bahia: Bom Jesus da Lapa, 17/VII/1975, *Andrade-Lima* 758194 (IPA; SP); *idem*, 18/VII/2005, *Forzza & Dias-Mello* 4079 (RB); *idem*, *Andrade-Lima* 75-8194 (IPA; SP); Caculé, 14/04/1983, *Carvalho* 1692 (CEPEC); Jequié, I/1998, *Sobral & Mattos e Silva* 5921 (CEPEC; MBM; ICN); Jussiapé, 20/V/1988, *Forzza* 1203 (CEPEC; SPF); Rio de Contas, 17/I/1974, *Harley* 15153 (CEPEC; IPA; K; RB); *idem*, 04/II/1997, *Harley* 5079 (SPF); *idem*, 10/IV/1999, *Forzza et al.* 1104 (CEPEC, SPF); Riacho de Santana, 16/III/1995, *Hatschbach et al.* 62872 (MBM); *idem*, 13/IV/2001, *Sant'Ana* 1024 (RB; SP); Tanhaçu, 3/II/1991, *Taylor et al.* 1546 (CEPEC; K). ***Encholirium ctenophyllum* Forzza & Zappi** BRAZIL. Minas Gerais: Santana do Riacho, 18/II/2007, *Zappi* 806 (RB); *idem*, 25/II/2009, *Forzza* 5455 (CEPEC; MBM; RB; SPF). ***Encholirium diamantinum* Forzza** BRAZIL. Minas Gerais: Diamantina, 16/XII/2004, *Forzza*, 3754 (RB); *idem*, 16/XI/2007, *Forzza* 4865 (RB); *idem*, 16/XI/2007, *Forzza* 4858 (RB); Serro, 16/XI/2007, *Forzza* 4858 (RB). ***Encholirium disjunctum* Forzza** BRAZIL. Bahia: Cocos, *Yoshida* 673 (UFP). Goiás: Guarani de Goiás, 5/XII/2003, *Forzza et al.* 2570 (RB; SPF). ***Encholirium eddie-estevesii* Leme & Forzza** BRAZIL. Goiás: Niquelândia, 16/IX/1998, *Forzza et al.* 1046 (SPF, US); Nova Roma, 25/VII/2007, *Forzza* 4669 (RB); Posse, estrada Posse – Iaciara, 1 km de Posse *Forzza et al.* 1574 (SPF); São Domingos, 19/V/1999, *Esteves E-346* (HB). Tocantins: Aurora do Tocantins, 13/IV/2008, *Martinelli* 16387 (RB). ***Encholirium erectiflorum* L.B. Smith** BRAZIL. Ceará: Crateús, 22/II/2000, *Lima-Verde* 981 (EAC); Viçosa do Ceará, 28/VI/1970, *Andrade-Lima* 705918 (SP). Piauí: Cocal, 30/V/1979, *Lima-Verde* s.n. (EAC 6200); Ibiapaba, 14/X/1966, *Lima* 66-4800 (IPA; US); Picos-Oieiras, 30/VII/1964, *Castellanos & Duarte* 583 (HB); Piracuruca, 20/VII/2007, *Mendonça et al.* 6063 (IBGE; RB); Piracuruca, Parque Nacional de Sete Cidades, cachoeira do Riachão, 15/IX/1977, *Barroso* 241 (RB 189467; SPF). ***Encholirium fragae* Forzza** BRAZIL. Bahia, São Desidério, 19/VII/2009, *Fraga* 2735 (RB); Bahia, São Desidério, 22/VI/2007, *Martinelli* 16211 (RB). ***Encholirium gracile* L.B. Smith** BRAZIL. Espírito Santo: Vila Pavão, 17/II/1998, *Forzza & Loyola* 930 (NY; SP; SPF; US); *idem*, 20/XI/2009, *Forzza* 5762 (RB), *idem* 13/II/2014, *Forzza* 7776 (RB). Minas Gerais: Teófilo Otoni, 14/VIII/1965, *Belem* 1620 (CEPEC; US; NY); *idem*, 27/I/2014, *Paula et al.* 680 (BHCB). ***Encholirium heloisae* (L.B. Smith) Forzza & Wanderley** BRAZIL. Minas Gerais: Jaboticatubas, 17/I/1972, *Hatschbach* 28785 (HB); *idem*, 6/VI/1970, *Joly et al.* 94 (SP); *idem*, 4/III/1972, *Joly et al.* 973 (SP); *idem*, 16-24/III/1973, *Sazima & Semir* (SP); *idem*, 1/III/1977, *Menezes* 825 (SP); Santana do Riacho, 19/II/1968, *Irwin et al.* 20472 (NY; R; UB); *idem*, 14/II/1973, *Hatschbach* 31544 (K; MBM; NY); *idem* 23/XI/1991, *Leme & Nahoum* 1836 (HB); *idem*, 4/III/1972, *Joly et al.* 990 (SP 217702); *idem*, 26/IV/1978, *Martinelli* 4367 (RB); *idem*, 25/II/1984, *Dalcin* 4 (RB); *idem*, 13/II/1987, *Wendt* 76 (RB); *idem*, 30/IV/1988, *Wanderley* s.n. (SP 224874); *idem*, 07/XII/1989, *Hensold et al.* s.n. (SP 179525; SPF); *idem*, 23/XI/1991, *Wanderley & Sajo* 1975 (SP); *idem*, 7/III/1992, *Pirani* 12889 (RB); *idem*, 21/IV/1950, *Duarte* 2747 ***Encholirium horridum* L.B. Smith** BRAZIL. Bahia: Guaratinga, 26/VIII/2010, *Daneu* 377 (CEPEC; RB). Espírito Santo: Água Doce do Norte, 22/IV/2013, *Forzza* 7611 (RB); Águia Branca, 25/IV/2006, *Demuner* 2202 (MBML); *idem*, 07/VI/2006, *Demuner* 2458 (MBML); *idem*, 18/V/2007, *Demuner* 3996 (MBML); Baixo Guandú, 27/I/2007, *Versieux* 392 (RB; SP); Itaguaçu, 7/IX/1989, *Boudet-Fernandes* 2789 (MBL; SP); Mutum, 09/II/2011, *Forzza* 6057 (RB); Nova Venécia, 17/VII/2008, *Forzza* 5193 (RB);

Pancas, 7/III/2003, *Fraga* 956 (RB); *idem*, 30/X/2003, *Fraga* 1072 (RB); *idem*, 05/VIII/2006, *Fontana* 2328 (RB); *idem*, 12/III/2010, *Forzza* 5838 (RB); Santa Teresa, 4/X/1989, *Boone* 1352 (SP); Vila Velha, 10/II/2011, *Forzza et al.* 6083 (RB; SPF); *idem*, 17/VII/1998, *Forzza & Loyola* 929 (HB; MBM; SPF;US); *idem*, 20/XI/2009, *Forzza* 5761 (RB). Minas Gerais: Jaguarapu, 25/XI/1998, *Martinelli* 15163 (RB); Mutum, 9/II/2011, *Forzza* 6057 (RB). ***Encholirium irwinii* L.B. Smith** BRAZIL. Minas Gerais: Serra do Espinhaço, oeste de Grão Mogol, *Irwin* 23573 (US; SPf); Grão Mogol, 10/VII/1985, *Cerati et al.* 262 (SP); *idem*, 4/IX/1985, *Melo-Silva et al. s.n.* (SP 224242, SPF); *idem*, 28/V/1988, *Bida et al. s.n.* (SP 248180; SPF); *idem*, 5/IX/1990, *Pirani et al. s.n.* (SP 357056; MBM); *idem*, 15/V/1998, *Pirani* 4348 (NY; SPF); *idem*, 17/VII/1998, *Forzza* 801 (SP; SPF; US). ***Encholirium kranzianum* Leme & Forzza** BRAZIL. Minas Gerais: Bocaiúva Near the border with Turmalina and Carbonita, 18/XI/2013, *Kranz* 393 (RB). Olhos d'Água do Oeste Margens da BR 451, IV-2008, *Peixoto w.n* (RB 607110). ***Encholirium longiflorum* Leme** BRAZIL. Minas Gerais: Serra Azul, 5/X/1984, *Teixeira & Carvalho* 380 (MBM; HB). Bahia: Bom Jesus da Lapa, 17/VII/1975, *Andrade- Lima* 758167 (IPA); Santana Distrito de Porto Novo, 17/VII/2005, *Forzza* 4076 (RB); *idem*, *Forzza* 4077 (RB). ***Encholirium luxor* L.B. Smith & R.W. Read** BRAZIL. Distrito Federal: Sobradinho, 26/V/1998, *Forzza et al.* 869 (CEN; HB; MBM; SPF). Goiás: Vila Propício, 20/V/1998, *Forzza* 917 (K; NY; RB; SPF). Minas Gerais: Bocaiuva, 10/VII/1998, *Forzza* 922 (SP; SPF); Engenheiro Dolabella, 17/VI/1990, *Simão-Bianchini* 249 (SP; SPF); Januária, 20/IV/1973, *Anderson et al.* 9259 (HB; US; SPF); *idem*, 15/VII/2005, *Forzza* 4057 (RB). Tocantins: Novo Alegre, 30/IV/2009, *Oliveira et al.* 1428 (IBGE, RB); *idem*, 30/VI/2009, *Fonseca* 1428 (RB). ***Encholirium lymanianum* E. Pereira & Martinelli** BRAZIL. Mato Grosso: Cuiabá, *Hutchison et al.* 8572 (US); Mato Grosso do Sul: Aquidauana, 11/VIII/1970, *Hatschbach* 24566 (HB; K; MBM; NY; RB; UPGB; US); Rio Verde, 11/VI/1974, *Martinelli* 400 (RB; HB; K; US); Serra da Bodoquena, 25/VII/1978, *Burle-Max s.n.* (HB 68956). ***Encholirium magalhaesii* L.B. Smith** BRAZIL. Minas Gerais: Botumirim, 28/IX/1997, *Rapini et al.* 351 (RB; SPF); Cristália, 28/IX/1997, *Mello-Silva* 1447 (RB; SPF); Diamantina, 18/I/1969, *Irwin et al.* 22169 (NY;UB; US); *idem*, 23/I/1969, *Irwin et al.* 22494 (NY; RB; UB; US); *idem*, 05/II/1972, *Anderson et al.* 35558 (NY); *idem*, 30/X/1981, *Giulietti s.n.* (RB 236418); *idem*, IV/1986, *Rauh* 67229 (HB); *idem*, *Forzza et al.* 472 (SPF); *idem*, *Forzza et al.* 548 (SPF); *idem*, 10/XII/1997, *Forzza et al.* 565 (BHCB; SPF; US); *idem*, 12/I/1998, *Forzza et al.* 611 (SPF); *idem*, 15/III/1999, *Rapini & Kawasaki* 815 (SPF); *idem*, 31/I/2000, *Forzza & Mello-Silva* 1509 (MBM; SPF); *idem*, 13/IX/2010, *Louzada et al.* 165 (SP); Gouveia, 06/IX/1971, *Hatschbach* 27337 (MBM); *idem*, 09/II/1994, *Sakuragui et al. s.n.* (SPF 94133); *idem*, 19/VI/2000 *Fiaschi & Costa* 325 (SPF); *idem*, 13/II/2014, *Verdi et al.* 7014 (RB); *idem*, 13/II/2014, *Verdi et al.* 7038 (RB). ***Encholirium maximum* Forzza & Leme** BRAZIL. Bahia: Ibotirama, 12/III/1999, *Linhares s.n.* (RB 493315); *idem*, 04/V/2002, *Jost* 543 (HUEFS); Oliveira dos Brejinhos, III/1998, *Hatsbach* 67797 (CEPEC); *idem*, 16/IV/1999, *Forzza et al.* 1234 (HUEFS; MBM; NY; RB; SPF); *idem*, 15/XI/2012, *Forzza* 7476 (RB). ***Encholirium pedicellatum* (Mez) Rauh** BRAZIL. Minas Gerais: Diamantina, 25/II/1975, *Hatschbach* 36487 (MBM); *idem*, 22/XI/1985, *Mello-Silva et al. s.n.* (SPF 40241); *idem*, 30/I/2000, *Forzza & Mello-Silva* 1504 (SPF; US); Serra dos Cristais, 04/IV/1892, *Schwake* 8413 (RB); Sopa, 12/VI/2006, *Menini Neto* 197 (RB). ***Encholirium pulchrum* Forzza et al.** BRAZIL. Minas Gerais: Morro do Pilar, 14/XI/2005, *Ribeiro* 48 (RB). ***Encholirium reflexum* Forzza & Wanderley** BRAZIL. Minas Gerais: Rio Pardo de Minas, V/1998, *Forzza et al.* 800 (SPF; US). ***Encholirium subsecundum* (Baker) Mez** BRAZIL. Minas Gerais: Base do Pico Itambé, 18/III/1963,

Magalhães 18938 (HB); Biribiri, III/1892, *Glaziou 19918* (B); Buenópolis, 18/XI/1992, *Melo-Silva et al. 609* (SPF); *idem*, 12/I/2006, *Pangaio 528* (RB); Conceição do Mato Dentro, 16/VII/1977, *Martinelli 2614* (RB); *idem*, 4/III/1998, *Forzza et al. 755* (K; SPF); Congonhas do Norte, 13/II/1991, *Arbo et al. 5009* (SPF); *idem*, 2/III/1998, *Forzza et al. 700* (RB; SPF); Datas, 26/V/2009, *Saavedra 894* (RB); Diamantina, 01/II/1942, *Egler* (RB 59653); *idem*, 31/V/1965, *Pereira 1655* (RB); *idem*, 25/II/1968, *Irwin et al. 20848* (HB, NY); *idem*, 19/III/1970, *Irwin et al. 27932* (HB, NY); *idem*, 6/IV/1983, *Martinelli 9197* (RB); *idem*, 15/II/1991, *Arbo et al. 5144* (CTES; SPF); *idem*, 21/XI/1991, *Leme & Nahoum 1815* (HB); *idem*, 15/VII/1996, *Roque et al. 262* (SPF); *idem*, 8/XII/1997, *Forzza et al. 534* (SPF); *idem*, XII/1997, *Forzza et al. 539* (SPF); *idem*, 1999, *Rapini & Kawasaki 822* (SPF); *idem*, 12/II/2014, *Martinelli 18213* (RB); Itacambira, 17/V/1998, *Pirani et al. 4396* (SPF); Joaquim Felício, 01/XI/1985, *Cavalcanti et al. s.n.* (SP; SPF 39445); *idem*, 11/I/1998, *Forzza et al. 592* (SPF); *idem*, 21/X/1999, *Hatschbach 69451* (HUEFS; MBM); Mato Verde, 24-VI/2008, *Leme 7457* (RB); Milho Verde, s.d., *Saint-Hilaire E-496* (P; RB); Montes Claros, 15/V/1977, *Gibbs et al. s.n.* (UEC 5143); Pedro Leopoldo, 2/IX/1968, *Duarte 11102* (SPF); Presidente Kubitschek, 1/III/1998, *Forzza et al. 861* (SPF); Rio Vermelho, 14/X/1984, *Meguro et al. s.n.* (RB, SPF 35305); *idem*, 14/VII/1984, *Wanderley et al. s.n.* (SPF 33299); *idem*, 22/II/1985, *Giulietti et al. s.n.* (SPF 37591); Santana do Pirapama, 16/II/2007, *Zappi 802* (RB); Santana do Riacho, Serra do Cipó, *Martinelli 914* (RB); *idem*, 02/XI/1968, *Duarte 1102* (BHCB); *idem*, 14/II/1968, *Irwin et al. 20080* (US); *idem*, 05/XIII/1972, *Hatschbach 29883* (MBM; US); *idem*, 16/XII/1979, *Martinelli 6311* (RB); *idem*, 13/IX/1985, *Hutchison 8905* (UEC); *idem*, 16/VII/1983, *Arraias s.n.* (SPF 31901); *idem*, 11/III/1987, *Sazima 18953* (UEC); *idem*, VI/1990, *Faria & Mazucato* (SPF 86544); *idem*, 27/III/1991, *Pirani et al. s.n.* (SP; SPF 77349); *idem*, 05/IV/1995, *Forzza & Pitta 99* (SPF); *idem*, 29/VI/1995, *Forzza & Pitta 104* (SPF); *idem*, 13/II/1996, *Forzza et al. 174* (SPF); *idem*, *Forzza et al. 199* (SPF); *idem*, 14/II/1996, *Forzza et al. 200* (SPF); *idem*, 22/VI/2000, *Fiaschi & Costa 349* (SPF); Serro, 25/II/1968, *Irwin et al. s.n.* (HB 71935). ***Encholirium scrutor* (L.B. Smith) Rauh** BRAZIL. Minas Gerais: Datas, 30/I/2000, *Forzza & Mello-Silva 1488* (K; MBM; RB; SP; SPF; US); *idem*, 1/II/2000, *Forzza & Mello-Silva 1520* (NY; P; RB; SPF; UB); Diamantina, s.d., *Giulietti s.n.* (RB 236432; SPF); *idem*, 23/II/1983, *Cordeiro & Simonis 4048* (SPF); *idem*, 15/II/1991, *Arbo et al. 5142* (K; SPF); Santana do Riacho, *Sano et al. 659* (SPF); Serro, 15/XI/2007, *Forzza 4856* (RB); *idem*, 12/II/2014, *Verdi et al. 6940* (RB). ***Encholirium spectabile* Martius ex Schult. & Schult. f.** BRAZIL. Bahia: Brejo do Burgo, 28/XII/1992, *Bandeira & Guedes 87* (ALCB; HUEFS); Cachoeira, 06/III/1981, *Cavalo 1130* (CEPEC); Canudos, *Silva 473* (HUEFS); Condeúba, s.d., *Campos Porto s.n.* (RB369790); Érico Cardoso, 23/VII/2009, *Fraga et al. 2754* (RB; SPF); Feira de Santana, 25/III/2003, *Santos 55* (HUEFS); *idem*, 02/XII/2003, *Sobrinho 143* (HUEFS); Gentio do Ouro, II/1907, *Ule 7223* (B); *idem*, 22/II/1977, *Harley 18957* (K; RB; SPF); *idem*, Freire-Fierro et al. 1827 (SP); Iaçú, 29/XI/1986, *Chautems et al. 204* (CEPEC); Itaberaba, 23/X/2005, *Melo 4152* (HUEFS); *idem*, 12/XI/2012, *Forzza 7419* (RB); Itatim, 26/XI/1995, *França 1487* (HUEFS); Jacobina, 26/X/1978, *Martinelli 5155* (RB; SPF); *idem*, 28/X/1995, *Amorim et al. 1821* (CEPEC); *idem*, 30/XII/2004, *Forzza & Mello-Silva 3885* (RB; SPF); *idem*, 4/XI/2010, *Oliveira 19* (SPF; RB); Juazeiro, s.d., *Rose 19770* (RB; US; SPF); Milagres, IX/1996, *Andrade* (RB 434968; ALCB 28635; CEPEC); *idem*, *Forzza et al. 1272* (CEPEC; SPF); *idem*, 17/XI/2012, *Forzza 7494* (RB); *idem*, IX/1996, *Clarencio s.n.* (CEPEC 85666); Morro do Chapéu, 28/XI/1992, *Arbo et al. 5431* (CEPEC); *idem*, 11/X/2008, *Melo 5998* (HUEFS); Paulo Afonso, s.d., *Schery 505* (RB); Rio de Contas, 4/II/1997, *Harley 5079* (CEPEC); Serra do Ramalho,

14/IV/2001, *Jardim et al.* 3476 (CEPEC); Sobradinho, 24/VI/1983, *Coradin* 5980 (NY; SP); *idem*, 06/VI/1999, *Siqueira-Filho* 940 (HVASF; UFP); Triunfo do Sincora, Lagoa do Mariano, 19/X/1995, *Félix s.n.* (RB 495948); Xique-Xique, 10/III/2006, *Queiroz* 12146 (CEPEC); *idem*, *Forzza et al.* 1403 (CEPEC: SPF). Ceará: Cascavel, s.d., *Dahlgren s.n.* (RB 369795); Campo Grande, s.d., *Dahlgren* 896 (RB); Humaita, *Ducke s.n.* (RB 369796); Meruoca, 14/VIII/1998, *Martinelli* 15058 (RB); Quixadá, 16/VI/1979, *Coradin* 1993 (RB). Paraíba: Campina Grande, s.d., *Foster* 2418 (RB; US; SPF); Misericórdia, 03/VII/1933, *Luetzelburg s.n.* (EAC 35990); *idem*, 03/VII/1993, *Luetzelburg* 25790 (IPA); Pernambuco: Agrestina, 02/VIII/2003, *Maciel* 53 (NY); *idem*, 17/XI/2005, *Araujo* 82 (UFP); *idem*, 22/X/2007, *Gomes* 661 (RB); Alagoinha, 05/XII/1994, *Sousa* 55 (UFP); Buíque, 20/II/2004, *Pick* 155 (UFP; IPA); *idem*, 26/I/2012, *Oliveira* 175 (HVASF); Caruaru, s.d., *Pickel* 4240 (RB); *idem*, 24/X/2008, *Gomes* 864 (RB); Serra do Vento, 1961, *Mee s.n.* (HAS 103113); Taquaritinga do Norte, 28/XII/1972, *Andrade-Lima* 72-7113 (IPA); *idem*, 28/XII/1972, *Andrade-Lima* 72-7114 (IPA); Triunfo, 19/X/1995, *Félix et al. s.n.* (IBGE 17341; HUEFS). Piauí: 06/VII/1912, *Lützelbury* 1676 (RB); Buriti dos Lopes, 20/VI/1972, *Sucre & da Silva* 9216 (RB). Rio Grande do Norte: Cerro Corá, *Castellanos* 22846 (R); Serra Negra do Norte, 24/V/2006, *Queiroz* 959 (IPA; UFRN); Sergipe: Monte Alegre, 17/X/1974, *Fonseca* 144 (ASE; RB); *idem*, X/1974, *Fonseca* 138 (ASE); Canindé de São Francisco, I/2010, *Silva & Santos* 206 (ASE); Gararu, XII/1981, *Viana* 317 (ASE); Macambira, I/2007, *Silva et al.* 77 (ASE); Nossa Senhora da Glória, XII/2013, *Rocha et al.* 114 (ASE); Poço Redondo, VII/2008, *Sales et al.* 184 (ASE). ***Encholirium vogelii* Rauh** BRAZIL. Minas Gerais: Santana do Riacho, 1/II/1987, *Wendt* 88 (RB); *idem*, 11/III/1987, *Sazima* 18952 (UEC); *idem*, 13/II/1996, *Forzza et al.* 173 (SPF); *idem*, 23/V/1996, *Forzza & Wanderley* 235 (SPF); *idem*, 20/X/1997, *Forzza et al.* 315 (RB; SPF). ***Fosterella hatschbachii* L.B.Sm. & Read** BRAZIL. Mato Grosso do Sul: Aquidauana, 15/IX/2011, *Leme* 8575 (RB). ***Fosterella windischii* L.B.Sm. & Read** BOLIVIA. La Paz Nor Yungas: Coroico, 28 km na estrada Cotapata - Chulumani. Vale do Rio Unduavi, 20/XII/2002, *Forzza* 2370 (RB). BRAZIL. Mato Grosso: Vila Bela da Santíssima Trindade Serra de Ricardo Franco, 13/VII/2007, *Kranz s.n.* (RB 484465); *idem*, *Kranz* 212 (RB). ***Pitcairnia uaupensis* Baker** BRAZIL. Amazonas: Camanaus, 27/X/1978, *Nascimento* 807 (RB); São Gabriel da Cachoeira Igarapé Yá-Mirim, Parque Nacional Pico da Neblina, 1/IX/2011, *Saraiva* 234 (RB). ***Pitcairnia ulei* L.B.Sm.** BRAZIL. Distrito Federal, 19/VI/1985, *Mendonça & Ribeiro* 480 (RB); *idem*, 29/XI/2011, *Saraiva* 309 (RB). Goiás: Alto Paraíso de Goiás São Jorge, 15/X/1980, *Martinelli* 7509 (RB); *idem*, 27/IX/1995, *Fonseca* 625 (RB); *idem*, 1/XII/2003, *Forzza* 2513 (RB); *idem*, 25/XI/2011, *Saraiva* 293 (RB); Pirenópolis, Parque Estadual dos Pirineus, 24/XI/2011, *Saraiva* 292 (RB).

Supplemental data Appendix S3. List of morphological characters and character states used in phylogenetic analysis of xeric clade (Bromeliaceae: Pitcairnioideae).

1. Photosynthetic pathway: 0 = Values less negative than -20‰ carbon assimilation occurring predominantly via the CAM; 1 = Values more negative than -20‰ indicate carbon fixation occurring predominantly via the C3. **2. Stem (rhizome):** 0 = reduced to a disk, without lateral branches; 1 = with lateral branches. **3. Branches of the stem:** 0 =

little developed short and erect; 1 = developed, thin and not erect; 2 = developed, thick, very long and branched, not erect, rhizome thick. **4. Plant, dimorphism leaves:** 0 = dimorphic leaves; 1 = monomorphic leaves. **5. Leaf, margin, morphology:** 0 = entire; 1 = aculeate. **6. Leaf blade shape:** 0 = linear-triangular; 1 = narrowly triangular; 2 = lanceolate. **7. Transverse posture of the leaves:** 0 = reflexed; 1 = erect-patent; 2 = secund (all leaves oriented to one side); 3 = (medusa) arched; 4 = erect. **8. Trichome density on the blade in the adaxial:** 0 = high density of trichomes, leaving the leaf blade with greyish coloration; 1 = low density of trichomes. **9. Trichome density on the blade in the abaxial:** 0 = high density of trichomes, leaving the leaf blade with greyish coloration; 1 = low density of trichomes. **10. Transition between the sheath and leaf blade:** 0 = blade and sheath with distinct constriction; 1 = blade and sheath with indistinct constriction. **11. Number of leaves:** 0 = few leaves (<17); 1 = many leaves (up to > 18 leaves). **12. Peduncle thickness:** 0 = thin (< 0,9 cm); 1 = thick (1 cm - 3 cm); 2 = very thick (>3,1 cm). **13. Peduncle position or flowers:** 0 = terminal; 1 = axillary. **14. Differentiation of peduncle bract:** 0 = different from leaves starting at the peduncle base; 1 = leaf-like until middle portion; 2 = leaf-like only in the base. **15. Relationship of the upper peduncle bracts with the internode:** 0 = peduncle bracts short, shorter than the internodes; 1 = peduncle bracts equaling the internodes; 2 = peduncle bracts long, exceeding the internodes. **16. Flowering period in the same peduncle:** 0 = dropping old branches after flowering and producing new ones from lateral buds; able to flower for several years; 1 = peduncle produces flowers only once. **17. Reproductive portion:** 0 = uniflora; 1 = inflorescence pauci to multiflora. **18. Branching type of inflorescence:** 0 = heterotetic double raceme; 1 = simple (not branched); 2 = heterotetic triple raceme (raceme with first and second order racemes). **19. Spacing between the flowers:** 0 = lax (with flowers arranged more than 1cm distance); 1 = congested (with flowers arranged less than 1cm distance). **20. Flower arrangement along the rachis or inflorescence branches:** 0 = polystichous; 1 = distichous. **21. Length of the primary bract in relation to the lower branches:** 0 = primary bract shorter than the branch; 1 = primary bract longer than the branch. **22. Number of flowers, per flowering:** 0 = many flowers (> 100-1500); 1 = intermediate number of flowers (99-40); 2 = few flowers (39-10); 3 = reduced number of flowers (<10). **23. Floral bracts, size:** 0 = bigger than pedicel; 1 = smaller than pedicel. **24. Length of the floral bracts in relation to sepals:** 0 = floral bracts shorter than the sepals; 1 = floral bracts equaling the sepals about 1/1; 2 = floral bracts

longer the sepals. **25. Floral bracts, indumentum:** 0 = glabrescent; 1 = lanuginous; 2 = lepidote; 3 = glandular trichome. **26. Floral bract shape:** 0 = ovate-triangular; 1 = lanceolate; 2 = ovate-lanceolate; 3 = broad ovate to obovate; 4 = lanceolate-filiform. **27. Pedicel:** 0 = flowers sessile; 1 = pedicellate flowers. **28. Pedicel, size:** 0 = shorter than or equal to 0,9 cm; 1 = bigger than 1 cm. **29. Extranuptial nectaries (modified stomata in the sepals):** 0 = absent; 1 = present. **30. Orientation ascending and descending of flowers at anthesis:** 0 = erect; 1 = patent; 2 = suberect; 3 = reflex. **31. Torsion of the flowers at anthesis and afterwards:** 0 = not-secund; 1 = secund. **32. Sepal symmetry:** 0 = symmetrical; 1 = asymmetrical. **33. Sepal, indumentum:** 0 = glabrescent; 1 = lanuginose; 2 = lepidote. **34. Sepal shape:** 0 = ovate; 1 = obovate; 2 = ovate-triangular; 3 = triangular-lanceolate; 4 = elliptic; 5 = lanceolate. **35. Sepal color:** 0 = white to cream-colored; 1 = yellow to orange-yellow; 2 = cream-greenish to green; 3 = orange-reddish; 4 = pinkish; 5 = brown; 6 = vinaceous - reddish -darkpurple. **36. Floral symmetry:** 0 = actinomorphic petals; 1 = zygomorphic petals. **37. Petal, position during anthesis:** 0 = overlapped; 1 = partially overlapped; 2 = no overlapped. **38. Petal, position after fertilization:** 0 = no-spiralate; 1 = spiralate. **39. Inner base of petals:** 0 = without projection; 1 = projected in a basal petal appendage. **40. Petal color:** 0 = white to cream-colored; 1 = yellow to orange; 2 = cream-greenish to green; 3 = orange-reddish; 4 = yellowish-greenish; 5 = vinaceous - reddish- dark-reddish; 6 = brown. **41. Petal shape:** 0 = ovate; 1 = obovate; 2 = elliptic; 3 = lanceolate-triangular; 4 = linear. **42. Ovary, position:** 0 = superior; 1 = inferior; 2 = half-inferior. **43. Shape of the filament:** 0 = filiform; 1 = complanate. **44. Stamen, position during anthesis:** 0 = included; 1 = exerted; 2 = partially exerted (stamen equaling the length of the petal). **45. Flower, stamen, concrescence in relation to petals:** 0 = free; 1 = adnate. **46. Connation of filaments:** 0 = filaments joined to each other; 1 = filaments not joined to each other. **47. Proportion of connation of filaments with the petal and among themselves:** 0 = basally connate <0,4 cm; 1 = apically (highly) connate > 0,5 cm; 2 = the antipetalous ones are adnate to the base of the petals. **48. Stigma type:** 0 = simple-erect; 1 = conduplicated-spiralate. **49. Stigma, lobe compactation:** 0 = compact and little or no-spiralated; 1 = laminate and strongly spiralate. **50. Pistil, style position during anthesis:** 0 = included; 1 = exerted. **51. Type of seed:** 0 = seeds bicaudate-appendaged; 1 = winged, alate-appendaged. **52. Seed, shape:** 0 = linear (without prolongation); 1 = long-caudate; 2 = orbicular; 3 = orbicular-cuneate; 4 = falciform, falcad. **53. Number of wings:** 0 = double;

1 = unique. **54. Wing, prolongation:** 0 = not surrounding embryo; 1 = surrounding embryo. **55. Seed, surface:** 0 = wing-cells similar to the cells of embryo region; 1 = wing-cells different from the cells of embryo region. **56. Section contour, adaxial of the leaf:** 0 = smooth to undulating; 1 = ribbed; **57. Section contour, abaxial of the leaf:** 0 = smooth to undulating; 1 = ribbed. **58. Inner periclinal wall thickness of epidermal cells, adaxial:** 0 = absent; 1 = present. **59. Inner periclinal wall thickness of epidermal cells, abaxial:** 0 = absent; 1 = present. **60. Wall thickness of sclerenchymatic hypoderm cells, adaxial:** 0 = slender; 1 = slightly thick; 2. thick. **61. Stomata position to the epidermis:** 0 = above; 1 = same level. **62. Adaxial peltate scales:** 0 = absent; 1 = present. **63. Number of stalk cells:** 0 = two cells; 1 = three cells. **64. Adaxial cell shape of water storage tissue:** 0 = rounded; 1 = elongated. **65. Water storage tissue and chlorenchyma transition:** 0 = gradual; 1 = abrupt; **66. Chlorenchyma, cell shape:** 0 = rounded; 1 = palisade. **67. Air-lacunae parenchyma, restricted to interfascicular region:** 0 = absent; 1 = present. **68. Cell shape of air-lacunae parenchyma:** 0 = short arms; 1 = long arms. **69. Sclerenchymatic fibers sheath in larger vascular bundles:** 0 = caps; 1 = surrounded. **70. Smaller vascular bundles, fiber caps form:** 0 = wider than long; 1 = longer than wide.

Supplemental data Appendix S4. Data matrix with 109 species and 70 morphological characters used in the phylogenetic analysis of the xeric clade. Taxa in bold type refer to the type species of the genera.

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	1-10	11-20	21-30	31-40	41-50	51-60	61-70
<i>Fosterella hatschbachii</i>	111102{14}001	0002011000	0{01}{01}0001001	0023202000	300101-001	0100100010	0000111010
<i>Fosterella windischii</i>	01110{12}3101	{01}002011{02}00	001{02}00100{13}	1022202100	300101-001	010010001-	0000111011
<i>Pitcairnia uaupensis</i>	10-0024111	0002211100	-200211100	{01}024612015	420101-101	131010001-	100011101?
<i>Pitcairnia ulei</i>	10-1024100	{01}002011{01}00	0{12}{01}024100{02}	0023312011	420001-101	1310101110	1010111011
<i>Deuterocohnia brevifolia</i>	010111{14}1{01}1	1-----0---	-3-0230-?0	0120200112	200011{02}101	0100001112	0010000000
<i>Deuterocohnia brevispicata</i>	0111111111	1102001{02}10	1{01}-1230-10	01{12}060011{25}	2000112101	0000001111	0101000101
<i>Deuterocohnia chrysantha</i>	0111111{01}11	1102001010	0{01}-1030-10	010010011{24}	200{01}112111	1310001111	0111000001
<i>Deuterocohnia glandulosa</i>	?11111{13}110	1002001{02}10	001013101{01}	0110201114	2000112111	0100001111	0101001001
<i>Deuterocohnia haumanii</i>	0111111111	110?201001	0{12}1{01}13{01}010	011020111{24}	3000112111	?????01111	0101000101
<i>Deuterocohnia longipetala</i>	0111110111	1{01}02001{02}01	0{01}-0230-10	010020211{14}	2000112111	0{01}00011111	0101000101
<i>Deuterocohnia meziana</i>	012111{01}110	1202001000	01{01}023{01}{01}10	0103{26}0011{15}	4001112111	0100001111	0111000101
<i>Deuterocohnia recurvipetala</i>	???1110001	1100001{02}00	00-0{02}30-10	0100101011	4001112101	0100011111	0111000001
<i>Deuterocohnia sanctae-crucis</i>	01{01}1111111	10012{01}1{01}10	030010{01}010	011020011{14}	4000112101	?????01111	0100000000
<i>Deuterocohnia scapigera</i>	?101111111	1001?01{01}10	030{01}13{01}010	01{01}0{12}0011{12}	2000112111	?????01111	0111000100
<i>Deuterocohnia schreiteri</i>	0111111111	1102001{01}10	00-1030-1{01}	0100{25}01011	200{01}112101	??????????	??????????

<i>Deuterocohnia strobilifera</i>	0111111000	1102201000	{01}1-{01}230-10	0100{15}02011	2001112111	1310011111	0111000101
<i>Dyckia acutiflora</i>	?0-110{12}001	1012011{01}00	010{02}10101{01}	0012300003	2210101100	?????01112	0101000000
<i>Dyckia areniticola</i>	?0-1101101	1010011110	-200231012	0000600103	2211101100	?????01112	0101000100
<i>Dyckia beateae</i>	0111110111	1110011010	00{01}013101{12}	0011600003	32011?0100	?????11112	0111000010
<i>Dyckia brachyphylla</i>	011111{12}101	101001110{01}	-30023101{12}	0020301003	2200100100	?????01112	0101000000
<i>Dyckia bracteata</i>	0111111110	1112{01}11000	{01}{12}02231010	0000300003	2200101100	1211001112	0101000001
<i>Dyckia braunii</i>	?0-1111001	{01}012011101	-3-0021010	000?100001	?200100100	??????????	??????????
<i>Dyckia brevifolia</i>	00-1111111	1012{01}11100	-202201011	0000102001	2210100110	1211001112	0011000000
<i>Dyckia choristaminea</i>	0111111110	1010{12}11{01}{01}0	0{23}0{12}231010	0000101001	1200110110	1211001111	0101000010
<i>Dyckia cinerea</i>	???1111001	1112211{01}10	{01}102131010	0020100001	0210100100	1211001112	0111000111
<i>Dyckia delicata</i>	?111110111	1112011{01}00	0{01}0{02}031010	0000200001	220110010{01}	1{23}1{01}0?????	??????????
<i>Dyckia densiflora</i>	0111111100	1012{12}11100	-{23}0{02}13101{12}	0020300003	2200101110	1411001112	0011000011
<i>Dyckia dissitiflora</i>	00-111{12}100	1010011100	-202121012	{01}014300003	2200101100	?????01112	0111000000
<i>Dyckia duckei</i>	00-111{13}101	1010011100	-(23)10031011	0020300001	2210100100	?????01112	0111000001
<i>Dyckia dusenii</i>	0{01}1111101	1{12}12211{01}00	0102001011	0000100001	2210101100	1211001112	0011000011
<i>Dyckia elisabethae</i>	?111121111	1111011{01}00	0{01}00231011	0000300001	2210100100	1{24}11001112	0111000010
<i>Dyckia encholirioides</i>	0121111111	1111{12}11{01}00	000022101{12}	0020301001	221010111{01}	1{24}11001112	0001000010
<i>Dyckia espiritosantensis</i>	?11111{14}111	1112011100	-200231013	0020300003	1210100100	??????????	??????????
<i>Dyckia ferruginea</i>	0111111100	1212011110	-10{01}201010	0020202004	220{01}100101	1211001112	0111000101
<i>Dyckia floribunda</i>	00-1111001	1112011000	0002231012	0010101001	2201100100	1411011112	0111000111
<i>Dyckia fosteriana</i>	0111110000	1{01}11011100	-20{02}03101{12}	0020301001	1210100100	1211001112	0111000010
<i>Dyckia gouveiana</i>	?0-1112001	{01}012011100	-202131011	0010300003	2210100100	?????01112	0101000001
<i>Dyckia hebdingii</i>	0111111001	1112{02}11200	0{01}0213101{12}	{01}010202001	1201000111	0100001112	0101000000

<i>Dyckia hohenbergioides</i>	?111111001	1112011{02}10	0102001012	000060000{35}	1210100100	1211011112	0111000000
<i>Dyckia ibicuensis</i>	?0-1111111	1{12}11011100	-102021012	0001102001	1200100101	1211001112	0011000011
<i>Dyckia ibiramensis</i>	?0-1111101	1012011001	010{02}20101{23}	0000301001	2210100100	1211001112	0001000010
<i>Dyckia jonesiana</i>	?111121101	1012011100	-200131011	0000601003	220010{12}110	??????????	??????????
<i>Dyckia kranziana</i>	?111111100	1010011{01}10	0202131012	0010100003	1210100100	1211001112	0011000011
<i>Dyckia lunaris</i>	?10111{01}111	11112111{01}0	-10212101{13}	0010300003	12?01??100	?????01112	0011000000
<i>Dyckia macedoi</i>	0111121101	101201110{01}	~{23}1023101{13}	0000300001	1210101110	1211001112	0001000010
<i>Dyckia machrisiana</i>	00-1111001	1012011100	-20013101{01}	0010300005	22?0100100	?????01112	0111000011
<i>Dyckia maracasensis</i>	00-111{12}110	1012011{01}00	0{12}{01}0131012	1010300003	2210100100	?????01112	0101000010
<i>Dyckia maritima</i>	0011111111	1112011{02}10	000020101{13}	0021102001	1201100111	0000001112	0011000010
<i>Dyckia marnier-lapostollei</i>	00-1111001	{01}010011100	-200031010	0010300003	2210110100	?????01112	0011000000
<i>Dyckia martinellii</i>	?11112{13}101	1112011100	-100201011	0020{35}00003	2210100100	1211001112	0011000111
<i>Dyckia microcalyx</i> <i>var. microcalyx</i>	0111111111	1112011{01}00	0{01}0003101{23}	002?202001	120101-101	1211001112	0011000001
<i>Dyckia microcalyx</i> <i>var. ostenii</i>	0111111111	1112011{01}00	0{01}0{01}031012	00{12}0202001	1201110101	1211001112	0001000010
<i>Dyckia milagrensis</i>	?111111101	1012011{01}0?	011020101{12}	{01}000300003	1210100100	?????11112	0001000000
<i>Dyckia minarum</i>	00-1111100	1{01}11211100	-20220101{12}	0024301003	2210100110	1310011112	0011000001
<i>Dyckia mirandana</i>	?0-1113111	0012{12}11101	-30{02}201012	0000600001	1212101100	??????????	??????????
<i>Dyckia montezumensis</i>	?0-1113001	0010011{01}00	03{01}0131012	001060000{15}	2210101100	?????01112	0011000000
<i>Dyckia monticola</i>		0111111100	1012{02}11100	-202131011	0010301003	121010{01}100	?????01112
<i>Dyckia nana</i>	?0-1112001	1010011100	-300231011	1000100001	1210100100	??????????	??????????
<i>Dyckia niederleinii</i>	00-1111111	1012011000	000{02}131012	0004102001	2201101110	?????01112	0001000000

<i>Dyckia pectinata</i>	?111110101	1012011100	-20223101{12}	0001300005	1210101100	?????01112	0101000101
<i>Dyckia pernambucana</i>	?111113101	1012011{01}00	020{01}101010	1010302003	1200100100	1211001112	0111000001
<i>Dyckia pottiorum</i>	?111113101	{01}010011100	-200031012	1000100001	1210100100	1211001112	0111000000
<i>Dyckia pseudococcinea</i>	00-111110{01}	1012011100	-20113101{13}	0010301003	1210100100	1211001112	0001000011
<i>Dyckia pulquinensis</i>	00-1111101	1010011{01}00	02{01}213101{12}	{01}010300001	1202100100	1211011112	0101000110
<i>Dyckia ragonesei</i>	0111111111	1010011{01}00	0100201010	0020101003	12011011?0	1411011112	0111000101
<i>Dyckia rariflora</i>	00-11{12}1101	111201110{01}	-20{01}231011	0020{36}01005	121{01}101110	1211001112	0011000010
<i>Dyckia remotiflora</i>	0111111101	1012011100	~{23}0013101{12}	0010{01}01003	2201100110	1211001111	0101000011
<i>Dyckia rondonopolitana</i>	?111110101	1010211110	-200031012	0000101001	1210101100	?????01112	0011000000
<i>Dyckia saxatilis</i>	0111111101	1010011{01}00	0{23}0{01}13101{13}	0024301003	221010{01}100	1311?01112	0001000001
<i>Dyckia secunda</i>	?11111?101	1012011101	-200221012	1020502006	2210100100	?????01112	0101000000
<i>Dyckia selloa</i>	?111111001	1111211210	0000031011	0000202001	1201100101	?1???01112	0011000101
<i>Dyckia sthreliana</i>	?121111111	1012011{01}00	010{02}13101{12}	0010{35}01001	1210100100	?????01112	0011000110
<i>Dyckia tenebrosa</i>	?0-1111001	1012011100	~{23}00131012	0010{15}0100{15}	1211100100	1211001112	0001000101
<i>Dyckia tobatensis</i>	0111111111	1{01}12011000	01{01}0201012	0020102001	120{12}1001?1	??????????	??????????
<i>Dyckia tubifilamentosa</i>	?11111{12}101	1012011101	-300231012	1020{26}0200{25}	2201101110	1{24}110?????	??????????
<i>Dyckia ursina</i>	00-112{24}111	1112011{01}00	010213101{12}	0010{35}00003	2212100100	1211001112	0001000011
<i>Dyckia velascana</i>	0111111101	1{01}12011{02}{01}0	000013101{12}	0000100001	120{01}100100	1211001112	0101000111
<i>Dyckia vestita</i>	0?????????	1????11000	010123101{01}	0000?0?001	02021011??	??????????	??????????
<i>Dyckia vicentensis</i>	?111111101	1012011100	-20002101{12}	0020600005	2200100110	?????01112	0101000000
<i>Dyckia walteriana</i>	?12111{14}001	1112011010	0000101012	0000202001	2211101101	1310001112	0111000010
<i>Encholirium agavoides</i>	?111111001	1101{02}11110	~{12}02031002	0000202002	22{01}101-101	1411011112	0101000001

<i>Encholirium ascendens</i>	?111111010	{01}201211010	0002231001	0000501002	020101-101	1411001112	0101000001
<i>Encholirium biflorum</i>	00-1{01}12100	1002011101	-300031001	000020000{12}	1210110100	1211001112	0011000001
<i>Encholirium brachypodum</i>	0111111{01}{01}1	1101011110	-002031001	0000201002	0201110111	1411001112	0101000001
<i>Encholirium ctenophyllum</i>	?1111{12}{01}100	1101211110	-10203100{12}	0000202002	220101-111	1411001112	0101000001
<i>Encholirium diamantinum</i>	?111120000	1102011100	~{12}02021002	0005202002	220101-101	1411011112	0100000100
<i>Encholirium disjunctum</i>	?111111111	1101011100	-21222110{13}	0002?0000?	120001-111	1211001112	0110000001
<i>Encholirium eddieestesvesii</i>	?111111001	1101211{01}00	00{01}0{02}11001	0{01}02101001	2201100111	1411001112	0101000001
<i>Encholirium erectiflorum</i>	00-1111111	1101{02}11010	00{01}0011100	1002102101	220101-111	1411001112	0001000101
<i>Encholirium fragae</i>	?111111001	1{12}01211000	0000011{01}01	0013600005	020001-111	1411011112	0111000001
<i>Encholirium gracile</i>	00-111{12}001	1001011{12}00	0110001{01}01	000010{12}101	220101-111	0100001112	0111000001
<i>Encholirium sp. nov. gracile</i>	?0-111{12}001	1001011{12}00	0110001{01}01	000010{12}101	220101-111	010000????	??????????
<i>Encholirium heloisae</i>	00-1{01}11101	1001011100	-210011101	0000200002	120001-100	1211001112	0101000001
<i>Encholirium horridum</i>	00-1110111	11010110{01}0	0010001101	0000202101	020101-111	0100000112	0101000100
<i>Encholirium irwinii</i>	00-111{13}011	1001011100	-212011001	0002202002	220101-101	1{34}1{01}000112	0111000001
<i>Encholirium kranzianum</i>	?0-111{01}001	1101011100	-210011103	0010600002	120101-101	??????????	??????????

<i>Encholirium longiflorum</i>	0111111000	1101211100	-010001101	000220210{02}	2201110111	1411011111	0111000001
<i>Encholirium luxor</i>	0111111001	1201211100	-010011101	0000202102	220101-111	1{24}11011112	0101000001
<i>Encholirium lymanianum</i>	0121111001	1101011110	-100111001	0010?0100?	020101-111	1{24}11011112	0101000101
<i>Encholirium magalhaesii</i>	00-1111001	1100011100	~{12}0202100{02}	0000202002	220101-101	1211001112	0111000001
<i>Encholirium maximum</i>	?0-1111001	1101011100	-002031001	0001201001	020101-111	1211001112	0101000101
<i>Encholirium pedicellatum</i>	?0-1110001	1002011100	-210011101	0000200002	1200000100	1211000112	0111000000
<i>Encholirium pulchrum</i>	?0-11{12}0111	{01}102011100	-112021101	000420{01}002	120001-100	?????00112	00-1000000
<i>Encholirium reflexum</i>	00-1110001	1101011100	-200011001	0001200002	1202010100	1211011112	0101000000
<i>Encholirium scrutator</i>	00-{01}1{12}001	1001011100	~{23}1000110{12}	0000400002	1210112100	1211000112	0001000000
<i>Encholirium spectabile</i>	0121111001	1201{01}11110	-0{01}0011{01}0{01}	0000202102	220101-111	1411001112	0111000101
<i>Encholirium splendidum</i>	?11111{01}000	1101{02}11100	-11002110{12}	0004202102	320101-101	1411001112	0001000101
<i>Encholirium subsecundum</i>	0111111111	1201211110	-002021002	0003202002	22?101-111	1411001112	0111000001
<i>Encholirium vogelii</i>	?0-111{12}111	1101211100	~{01}02111101	0010200002	1210000100	1411000112	00-1000001

Supplemental data Appendix S5. GenBank accession numbers for terminals sampled in this study.

rpl32-trnL

***Dyckia acutiflora* Leme & Z.J.G.Miranda** MH587363
***Dyckia areniticola* Leme** MH587364
***Dyckia areniticola* Leme** MH587365
***Dyckia bracteata* (Witt.) Mez** MH587366
***Dyckia duckei* L.B.Sm** MH587367
***Dyckia dusenii* L.B.Sm.** MH587368
***Dyckia gouveiana* Leme & O.B.C. Ribeiro** MH587369
***Dyckia hohenbergioides* Leme & E.Esteves** MH587370
***Dyckia hohenbergioides* Leme & E.Esteves** MH587371
***Dyckia kranziana* Leme** MH587372
***Dyckia martinellii* B.R.Silva & Forzza** MH587373
***Dyckia montezumensis* Leme** MH587374
***Dyckia pottiorum* Leme** MH587375
***Dyckia selloa* (K.Koch) Baker** MH587376
***Dyckia tenebrosa* Leme & H.Luther** MH587377
***Dyckia walteriana* Leme** MH587378
***Encholirium agavoides* Forzza & Zappi** MH587379
***Encholirium diamantinum* Forzza** MH587380
***Encholirium eddie-estevesii* Leme & Forzza** MH587381
***Encholirium heloisae* (L.B.Sm.) Forzza & Wand.** MH587382
***Encholirium irwinii* L.B.Sm.** MH587383
***Encholirium kranzianum* Leme & Forzza** MH587384
***Encholirium* sp. nov. aff. *gracile* L.B.Sm.** MH587385
***Encholirium luxor* L.B.Sm. & R.W.Read** MH587386
***Encholirium magalhaesii* L.B.Sm.** MH587387
***Encholirium magalhaesii* L.B.Sm.** MH587388
***Encholirium maximum* Forzza & Leme** MH587389
***Encholirium pedicellatum* (Mez) Rauh** MH587390
***Encholirium pulchrum* Forzza et al.** MH587391
***Encholirium spectabile* Mart. ex Schult. & Schult.f** MH587392

Encholirium subsecundum (Baker) Mez MH587393

Encholirium vogelii Rauh MH587394

Encholirium fragae Forzza MH587395

rps16-trnK

Deuterocohnia chrysantha (Philippi) Mez MH587396

Deuterocohnia recurvipetala E.Gross MH587397

Dyckia acutiflora Leme & Z.J.G.Miranda MH587398

Dyckia areniticola Leme MH587399

Dyckia bracteata (Witt.) Mez MH587400

Dyckia choristaminea Mez MH587401

Dyckia duckei L.B.Sm. MH587402

Dyckia duckei L.B.Sm. MH587403

Dyckia dusenii L.B.Sm. MH587404

Dyckia gouveiana Leme & O.B.C. Ribeiro MH587405

Dyckia hohenbergioides Leme & E.Esteves MH587406

Dyckia kranziana Leme MH587407

Dyckia marnier-lapostollei L.B.Sm. MH587408

Dyckia marnier-lapostollei L.B.Sm. MH587409

Dyckia martinellii B.R.Silva & Forzza MH587410

Dyckia martinellii B.R.Silva & Forzza MH587411

Dyckia montezumensis Leme MH587412

Dyckia pottiorum Leme MH587413

Dyckia rondonopolitana Leme MH587414

Dyckia rondonopolitana Leme MH587415

Dyckia selloa (K.Koch) Baker MH587416

Dyckia tenebrosa Leme & H.Luther MH587417

Dyckia ursina L.B.Sm. MH587418

Dyckia vicentensis T.Strehl MH587419

Dyckia vicentensis T.Strehl MH587420

Dyckia walteriana Leme MH587421

Encholirium agavoides Forzza & Zappi MH587422

Encholirium biflorum (Mez) Forzza MH587423

Encholirium biflorum (Mez) Forzza MH587424
Encholirium brachypodum L.B. Smith & R.W. Read MH587425
Encholirium diamantinum Forzza MH587426
Encholirium diamantinum Forzza MH587427
Encholirium eddie-estevesii Leme & Forzza MH587428
Encholirium heloisae (L.B.Sm.) Forzza & Wand. MH587429
Encholirium irwinii L.B.Sm. MH587430
Encholirium longiflorum Leme MH587431
Encholirium luxor L.B.Sm. & R.W.Read MH587432
Encholirium lymanianum E.Pereira & Martinelli MH587433
Encholirium magalhaesii L.B.Sm. MH587434
Encholirium maximum Forzza & Leme MH587435
Encholirium pedicellatum (Mez) Rauh MH587436
Encholirium pulchrum Forzza et al. MH587437
Encholirium pulchrum Forzza et al. MH587438
Encholirium sp. nov. aff. *gracile* L.B.Sm. MH587439
Encholirium spectabile Mart. ex Schult. & Schult.f MH587440
Encholirium spectabile Mart. ex Schult. & Schult.f MH587441
Encholirium splendidum Forzza MH587442
Encholirium vogelii Rauh MH587443
Encholirium vogelii Rauh MH587444
Dyckia pseudococcinea L.B.Sm. MH587445

rps16

Deuterocohnia chrysantha (Philippi) Mez MH587446
Deuterocohnia longipetala (Baker) Mez MH587447
Deuterocohnia scapigera (Rauh & L. Hromadnik) M.A.Spencer & L.B.Sm.
MH587448
Dyckia acutiflora Leme & Z.J.G. Miranda MH587449
Dyckia areniticola Leme MH587450
Dyckia bracteata (Witt.) Mez MH587451
Dyckia choristaminea Mez MH587452
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Dyckia dusenii L.B.Sm. MH587454
Dyckia hohenbergioides Leme & E. Esteves MH587455
Dyckia ibiramensis Reitz MH587456
Dyckia kranziana Leme MH587457
Dyckia martinellii B.R.Silva & Forzza MH587458
Dyckia microcalyx var. *ostenii* L.B.Sm. MH587459
Dyckia montezumensis Leme MH587460
Dyckia rondonopolitana Leme MH587461
Dyckia tenebrosa Leme & H.Luther MH587462
Encholirium diamantinum Forzza MH587463
Encholirium heloisae (L.B.Sm.) Forzza & Wand. MH587464
Encholirium irwinii L.B.Sm. MH587465
Encholirium longiflorum Leme MH587466
Encholirium luxor L.B.Sm. & R.W.Read MH587467
Encholirium pedicellatum (Mez) Rauh MH587468
Encholirium pulchrum Forzza et al. MH587469
Encholirium scrutor (L.B.Sm.) Rauh MH587470
Encholirium sp. nov. aff. *gracile* L.B.Sm. MH587471
Encholirium spectabile Mart. ex Schult. & Schult.f MH587472
Encholirium splendidum Forzza MH587473

matK

Dyckia acutiflora Leme & Z.J.G.Miranda MH587474
Dyckia areniticola Leme MH587475
Dyckia duckei L.B.Sm. MH587476
Dyckia dusenii L.B.Sm. MH587477
Dyckia hohenbergioides Leme & E.Esteves MH587478
Dyckia kranziana Leme MH587479
Dyckia martinellii B.R.Silva & Forzza MH587480
Dyckia montezumensis Leme MH587481
Dyckia pottiorum Leme MH587482
Dyckia selloa (K.Koch) Baker MH587483
Dyckia tenebrosa Leme & H.Luther MH587484

Encholirium biflorum (Mez) Forzza MH587485
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Encholirium kranzianum Leme & Forzza MH587487
Encholirium luxor L.B.Sm. & R.W.Read MH587488
Encholirium magalhaesii L.B.Sm. MH587489
Encholirium maximum Forzza & Leme MH587490
Encholirium pulchrum Forzza et al. MH587491
Encholirium sp. nov. aff. *gracile* L.B.Sm. MH587492
Dyckia walteriana Leme MH587493
Encholirium scrutator (L.B.Sm.) Rauh MH587494
Encholirium spectabile Mart. ex Schult. & Schult.f MH587495
Encholirium vogelii Rauh MH587496
Deuterocohnia scapigera (Rauh & L.Hromadnik) M.A.Spencer & L.B.Sm.
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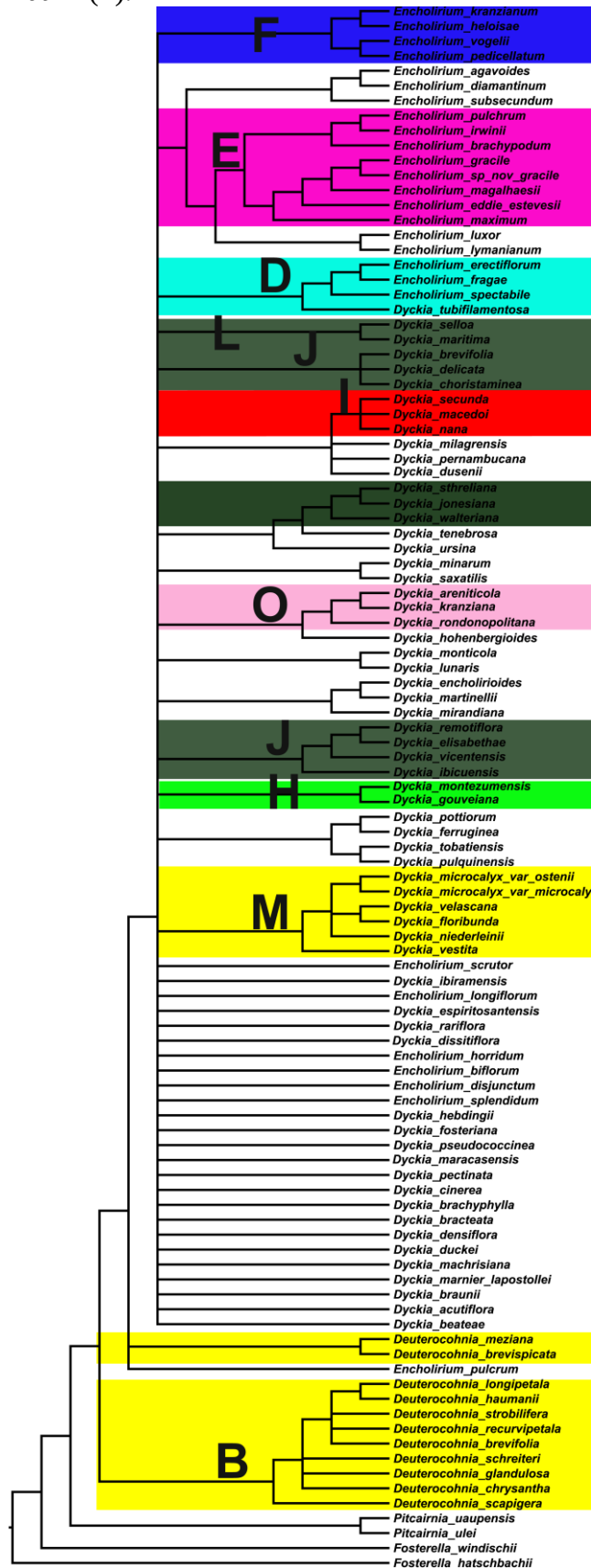
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Dyckia beateae E.Gross & Rauh MH587500
Dyckia brachyphylla L.B.Sm. MH587501
Dyckia bracteata (Witt.) Mez MH587502
Dyckia bracteata (Witt.) Mez MH587503
Dyckia braunii Rauh MH587504
Dyckia brevifolia Baker MH587505
Dyckia choristaminea Mez MH587506
Dyckia cinerea Mez MH587507
Dyckia delicata Larocca & Sobral MH587508
Dyckia densiflora Schult. & Schult.f. MH587509
Dyckia duckei L.B.Sm. MH587510
Dyckia dusenii L.B.Sm. MH587511
Dyckia ferruginea Mez MH587512
Dyckia floribunda Griseb. MH587513
Dyckia fosteriana L.B.Sm. MH587514

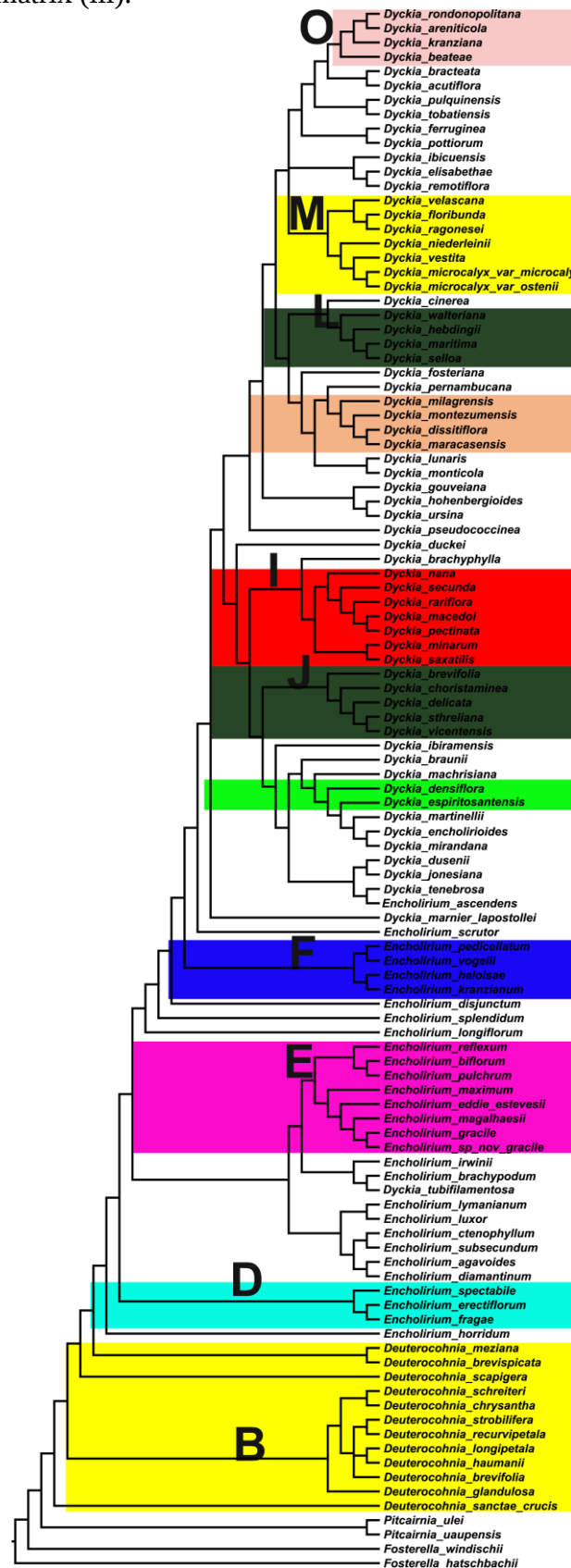
- Dyckia gouveiana* Leme & O.B.C. Ribeiro MH587515
Dyckia hebdingii L.B.Sm. MH587516
Dyckia hohenbergioides Leme & E.Esteves MH587517
Dyckia jonesiana T. Strehl MH587518
Dyckia kranziana Leme MH587519
Dyckia lunaris Leme MH587520
Dyckia machrisiana L.B. Smith MH587521
Dyckia maracasensis Ule MH587522
Dyckia marnier-lapostollei L.B. Smith MH587523
Dyckia martinellii B.R.Silva & Forzza MH587524
Dyckia microcalyx Baker MH587525
Dyckia mirandiana Leme & Z.J.G. Miranda MH587526
Dyckia montezumensis Leme MH587527
Dyckia monticola L.B. Smith & Reitz MH587528
Dyckia nana Leme & O.B.C.Ribeiro MH587529
Dyckia niederleinii Mez MH587530
Dyckia pectinata L.B. Smith & Reitz MH587531
Dyckia pottiorum Leme MH587532
Dyckia pseudococcinea L.B.Sm. MH587533
Dyckia pulquinensis Witt. MH587534
Dyckia rondonopolitana Leme MH587535
Dyckia saxatilis Mez MH587536
Dyckia selloa (K.Koch) Baker MH587537
Dyckia tenebrosa Leme & H. Luther MH587538
Dyckia tobatensis Hassler MH587539
Dyckia ursina L.B.Sm. MH587540
Dyckia velascana Mez MH587541
Dyckia vicentensis T.Strehl MH587542
Dyckia walteriana Leme MH587543
Encholirium agavoides Forzza & Zappi MH587544
Encholirium biflorum (Mez) Forzza MH587545
Encholirium brachypodium L.B. Smith & R.W. Read MH587546
Encholirium diamantinum Forzza MH587547

- Encholirium disjunctum* Forzza MH587548
Encholirium eddie-estevesii Leme & Forzza MH587549
Encholirium fragae Forzza MH587550
Encholirium sp. nov. aff. *gracile* L.B.Sm. MH587551
Encholirium heloisae (L.B.Sm.) Forzza & Wand. MH587552
Encholirium horridum L.B.Sm. MH587553
Encholirium irwinii L.B.Sm. MH587554
Encholirium kranzianum Leme & Forzza MH587555
Encholirium longiflorum Leme MH587556
Encholirium luxor L.B.Sm. & R.W.Read MH587557
Encholirium lymanianum E.Pereira & Martinelli MH587558
Encholirium magalhaesii L.B.Sm. MH587559
Encholirium maximum Forzza & Leme MH587560
Encholirium pedicellatum (Mez) Rauh MH587561
Encholirium pulchrum Forzza et al. MH587562
Encholirium spectabile Mart. ex Schult. & Schult.f MH587563
Encholirium spectabile Mart. ex Schult. & Schult.f MH587564
Encholirium splendidum Forzza MH587565
Encholirium splendidum Forzza MH587566
Encholirium vogelii Rauh MH587567

Supplemental Fig. S1. Tree resulting from MP searches using IW (K= 17.17), with concatenated data, matrix (ii).



Supplemental Fig. S2. Strict consensus tree of MP searches using EW, with concatenated data, matrix (iii).



Supplemental Fig. S3. Tree resulting from MP searches using IW (K = 21.48), with concatenated data, matrix (iv).

