

Supplementary Table 3. Previously published genome size (2C-values), derived Cx values (based on the 2C threshold for diploids) and GC content estimates of the subfamily Bromelioideae and Puyoideae. Values marked with * were used for the analyses of this study. Nomenclature follows Gouda et al. (cont. updated) except the genus *Ananas* and *Pseudananas*.

BROMELIOIDEAE					
Taxon	2C [pg]	SD	Derived Cx [pg]	GC content [%]	Reference
<i>Aechmea</i> Ruiz & Pav.					
<i>A. angustifolia</i> Poepp. Endl.	0.69*	±0.005	0.345*		Müller et al. 2019
<i>A. aquilega</i> (Salisb.) Griseb	1.08*	±0.013	0.540*		Gitaí et al., 2014
<i>A. bracteata</i> (Sw.) Griseb.	0.81*	±0.005	0.405*		Müller et al. 2019
<i>A. coelestis</i> (K.Koch) E.Morren	0.96*	±0.004	0.480*		Müller et al. 2019
<i>A. eurycorymbus</i> Harms	2.19*	±0.013	0.5473*		Gitaí et al., 2014
<i>A. fendleri</i> André ex Mez	1.25*	±0.018	0.625*		Gitaí et al., 2014
<i>A. filicaulis</i> (Griseb.) Mez	1.67 1.77	±0.020 ±0.002		44.00	Šmarda et al., 2014 Müller et al. 2019
<i>A. fosteriana</i> L.B.Sm.	0.93*	±0.001	0.465*		Müller et al. 2019
<i>A. mexicana</i> Baker	0.76	±0.009			Müller et al. 2019
<i>A. nudicaulis</i> (L.) Griseb. var. <i>cuspidata</i> Baker	0.78	±0.000		35.12	Favoreto et al., 2012
<i>A. racinae</i> L.B.Sm	0.88	±0.016			Müller et al. 2019
<i>A. ramosa</i> Mart. ex Schult.f. & Schult.f.	1.37*	±0.018	0.685*	38.63*	Favoreto et al., 2012
<i>A. victoriana</i> L.B.Sm.	0.92*	±0.002	0.460*		Müller et al. 2019
<i>A. weilbachii</i> Didr.	1.10*	±0.001	0.550*		Müller et al. 2019
<i>Ananas</i> Mill.					
<i>A. bracteatus</i> (Lindl.) Schult. & Schult.f.	0.92				Arumuganathan & Earle, 1991
<i>A. comosus</i> (L.) Merr.	1.09 0.93	±0.003			Arumuganathan & Earle, 1991 Müller et al. 2019
<i>Billbergia</i> Thunb.					
<i>B. amoena</i> (Lodd.) Lindl.	0.74	±0.002			Müller et al. 2019
<i>B. brasiliensis</i> L.B.Sm. [also published as <i>Billbergia velascana</i> Cárdenas]	0.91* 0.90	±0.005 ±0.011	0.455*		Müller et al. 2019 Müller et al. 2019
<i>B. euphemiae</i> E.Morren	0.89*	±0.014	0.445*	37.42*	Favoreto et al., 2012
<i>B. horrida</i> Regel	0.77*	±0.005	0.385*	35.35	Favoreto et al., 2012
<i>B. horrida</i> Regel var. <i>tigrina</i> hort. ex Baker	0.85*	±0.014	0.425*		Gitaí et al., 2014
<i>B. magnifica</i> Mez	0.95*	±0.014	0.475*		Müller et al. 2019
<i>B. nutans</i> H.Wendl. ex Regel	0.7517	±0.0567			Ramírez-Morillo & Brown, 2001
<i>B. pallidiflora</i> Liebm.	1.03*	±0.009	0.515*		Gitaí et al., 2014
<i>B. pyramidalis</i> (Sims) Lindl.	0.90*	±0.003	0.450*		Müller et al. 2019
<i>B. tweedieana</i> Baker	0.95	±0.014		33.95	Favoreto et al., 2012
<i>B. viridiflora</i> H.Wendl.	0.66*	±0.002	0.330*		Müller et al. 2019
<i>Bromelia</i> L.					
<i>B. antiacantha</i> Bertol.	0.81*	±0.014	0.405*	38.43*	Favoreto et al., 2012
<i>Canistropis</i> Mez					
<i>C. billbergioides</i> (Schult.f.) Leme [also published as <i>Nidularium billbergioides</i> (Schult. & Schult.f.) L.B.Sm.]	1.00 1.02	±0.005		37.36	Favoreto et al., 2012 Müller et al. 2019
<i>Cryptanthus</i> Otto & A.Dietr.					
<i>C. acaulis</i> (Lindl.) Beer	1.38*	±0.0283			Ramírez-Morillo & Brown, 2001

	1.38				Cruz et al., 2020
<i>C. alagoanus</i> Leme & J.A.Siqueira	0.78				Cruz et al., 2020
<i>C. arelii</i> H.Luther	0.98				Cruz et al., 2020
<i>C. bahianus</i> L.B.Sm.	0.75	±0.0683			Ramírez-Morillo & Brown, 2001
<i>C. beuckeri</i> E.Morren	1.458*	±0.0179			Ramírez-Morillo & Brown, 2001
	1.46				Cruz et al., 2020
<i>C. bromelioides</i> Otto & A.Dietr.	1.52				Cruz et al., 2020
<i>C. burle-marxii</i> Leme	1.32				Cruz et al., 2020
<i>C. capitellatus</i> Leme & L.Kollmann	1.36				Cruz et al., 2020
<i>C. colnagoi</i> Rauh & Leme	1.34				Cruz et al., 2020
<i>C. coriaceus</i> Leme	0.84				Cruz et al., 2020
<i>C. correia-araujoii</i> Leme	1.66				Cruz et al., 2020
<i>C. delicatus</i> Leme	1.46				Cruz et al., 2020
<i>C. diana</i> Leme	1.36				Cruz et al., 2020
<i>C. giganteus</i> Leme & A.P.Fontana	1.38				Cruz et al., 2020
<i>C. lutherianus</i> I.Ramirez	0.90				Cruz et al., 2020
<i>C. lyman-smithii</i> Leme	1.38				Cruz et al., 2020
<i>C. marginatus</i> L.B.Sm.	1.26*	±0.005			Gitaí et al., 2014
	1.40				Cruz et al., 2020
<i>C. maritimus</i> L.B.Sm.	1.48				Cruz et al., 2020
<i>C. pickelii</i> L.B.Sm.	1.28				Cruz et al., 2020
<i>C. praetextus</i> E.Morren ex Baker	1.35*	±0.014			Gitaí et al., 2014
<i>C. reisii</i> Leme	0.88				Cruz et al., 2020
<i>C. sinuosus</i> L.B.Sm.	1.04				Cruz et al., 2020
<i>C. teretifolius</i> Leme	1.40				Cruz et al., 2020
<i>C. ubairensis</i> I.Ramirez	1.00				Cruz et al., 2020
<i>C. venecianus</i> Leme & L.Kollmann	1.32				Cruz et al., 2020
<i>C. viridipetalus</i> Leme	1.34				Cruz et al., 2020
<i>C. zonatus</i> (Vis.) Beer	1.04				Cruz et al., 2020
<i>C. sp.</i>	1.33*	±0.015		38.78*	Favoreto et al., 2012
Edmundoa Leme					
<i>E. lindenii</i> (Regel) Leme	1.32*	±0.010	0.662*		Gitaí et al., 2014
Fascicularia Mez					
<i>F. bicolor</i> (Ruiz & Pav.) Mez ssp. <i>bicolor</i>	1.05*	±0.010	0.527*		Gitaí et al., 2014
<i>F. bicolor</i> (Ruiz & Pav.) Mez ssp. <i>canaliculata</i> E.C.Nelson & Zizka	1.12*	±0.008	0.560*		Gitaí et al., 2014
Forzsea Leme, S. Heller & Zizka					
<i>F. leopolodo-horstii</i> Leme, S.Heller & Zizka	1.14				Cruz et al., 2020
Greigia Regel					
<i>G. sphacelata</i> (Ruiz & Pav.) Regel	1.56*	±0.004	0.779*		Gitaí et al., 2014
<i>G. sp.</i>	1.35*	±0.019	0.664*		Gitaí et al., 2014
Hohenbergia Schult. & Schult.f.					
<i>H. aechmeoides</i> Leme [published as <i>Hohenberiga aechmeoides</i> Leme]	1.48				Gonçalves-Oliveira et al., 2020
<i>H. arcuata</i> Leme & M.Machado	1.42				Gonçalves-Oliveira et al., 2020
<i>H. augusta</i> (Vell.) E.Morren [published as <i>Hohenbergia augusta</i> Mez]	1.23 1.24				Gonçalves-Oliveira et al., 2020
<i>H. barbaespina</i> Leme & Fraga	1.37				Gonçalves-Oliveira et al., 2020
<i>H. belemii</i> L.B.Sm & Read	1.32				Gonçalves-Oliveira et al., 2020
<i>H. blanchetii</i> (Baker) Mez [published as <i>Hohenbergia blanchetti</i> É.Mooren]	1.40				Gonçalves-Oliveira et al., 2020
<i>H. burle-marxii</i> Leme & W.Till	1.39				Gonçalves-Oliveira et al., 2020
<i>H. capitata</i> Schult. & Schult.f. [published as <i>Hohenbergia capitata</i> Schult.f.]	1.50				Gonçalves-Oliveira et al., 2020

<i>H. castellanosii</i> L.B.Sm. & Read	1.19 1.23 1.24				Gonçalves-Oliveira et al., 2020
<i>H. catinae</i> Ule	1.29 1.41 1.42 1.48				Gonçalves-Oliveira et al., 2020
<i>H. edmundoi</i> L.B.Sm & Read	1.36				Gonçalves-Oliveira et al., 2020
<i>H. flava</i> Leme & C.C.Paula	1.39				Gonçalves-Oliveira et al., 2020
<i>H. horrida</i> Harms	1.17				Gonçalves-Oliveira et al., 2020
<i>H. igatuensis</i> Leme	1.41				Gonçalves-Oliveira et al., 2020
<i>H. lanata</i> E.Pereira & Moutinho	1.46				Gonçalves-Oliveira et al., 2020
<i>H. lativaginata</i> J.R.Maciél & Louzada	1.22				Gonçalves-Oliveira et al., 2020
<i>H. lemei</i> H.Luther & K.Norton	1.32				Gonçalves-Oliveira et al., 2020
<i>H. leopoldo-horstii</i> E.Gross, Rauh & Leme	1.333				Gonçalves-Oliveira et al., 2020
<i>H. littoralis</i> L.B.Sm.	0.78				Gonçalves-Oliveira et al., 2020
<i>H. loredanoana</i> Leme & L.Kollmann	1.30				Gonçalves-Oliveira et al., 2020
<i>H. magnispina</i> Leme	1.27				Gonçalves-Oliveira et al., 2020
<i>H. minor</i> L.B.Sm.	1.28				Gonçalves-Oliveira et al., 2020
<i>H. pennae</i> E.Pereira	1.39				Gonçalves-Oliveira et al., 2020
<i>H. ramageana</i> Mez	1.42				Gonçalves-Oliveira et al., 2020
<i>H. reconcavensis</i> Leme & Fraga	1.35				Gonçalves-Oliveira et al., 2020
<i>H. ridleyi</i> (Baker) Mez	1.34				Gonçalves-Oliveira et al., 2020
<i>H. rosea</i> L.B.Sm & Read	1.33				Gonçalves-Oliveira et al., 2020
<i>H. stellata</i> Schult. & Schult.f.	1.33 1.34 1.36				Gonçalves-Oliveira et al., 2020
<i>H. utriculosa</i> Ule	1.52				Gonçalves-Oliveira et al., 2020
<i>H. vestita</i> L.B.Sm.	1.17				Gonçalves-Oliveira et al., 2020
<i>Hoplocryptanthus</i> (Mez) Leme, S. Heller & Zizka					
<i>H. caracensis</i> Leme, S.Heller & Zizka	0.78				Cruz et al., 2020
<i>H. ferrarius</i> Leme, S.Heller & Zizka	0.82				Cruz et al., 2020
<i>H. glaziovii</i> Leme, S.Heller & Zizka	0.80				Cruz et al., 2020
<i>H. regius</i> Leme, S.Heller & Zizka	0.78				Cruz et al., 2020
<i>H. schwackeanus</i> (Mez) Leme, S. Heller & Zizka [published as <i>Cryptanthus schwackeanus</i> Mez]	0.71*	±0.0141			Ramírez-Morillo & Brown, 2001
<i>H. schwackeanus</i> (Mez) Leme, S.Heller & Zizka	0.82				Cruz et al., 2020
<i>H. tiradentesensis</i> Leme, S.Heller & Zizka	0.80				Cruz et al., 2020
<i>Neoregelia</i> L.B.Sm.					
<i>N. carolinae</i> (Beer) L.B.Sm	0.96*	±0.028	0.480*		Müller et al. 2019
<i>N. aff. simulans</i> L.B.Sm.	0.98*	±0.004	0.490*	37.24*	Favoreto et al., 2012
<i>N. zonata</i> L.B.Sm.	0.93*	±0.001	0.465*		Müller et al. 2019
<i>Nidularium</i> Lem.					
<i>N. camposportoi</i> (L.B.Sm.) Wand. & B.A.Moreira [published as <i>Nidularium campos-portoi</i> (L.B.Sm.) Leme]	1.03*	±0.003	0.515*		Müller et al. 2019
<i>N. innocentii</i> Lem.	1.12*	±0.005	0.560*		Müller et al. 2019
<i>Ochagavia</i> Phil.					
<i>O. elegans</i> Phil.	1.12*	±0.015	0.557*		Gitaí et al., 2014
<i>Orthophytum</i> Beer					
<i>O. foliosum</i> L.B.Sm.	1.88*		0.313*		Müller et al. 2019
<i>O. saxicola</i> (Ule) L.B.Sm.	0.64*	±0.0141	0.320*		Ramírez-Morillo & Brown, 2001

Portea K.Koch.					
<i>P. petropolitana</i> (Wawra) Mez	1.31*	±0.011	0.655*		Gitaí et al., 2014
Pseudananas Hassl. ex Harms					
<i>P. sagenarius</i> (Arruda) Camargo [published as <i>Ananas macrodontes</i> E.Morren]	1.00	±0.021		39.24	Favoreto et al., 2012
Quesnelia Gaudich.					
<i>Q. arvensis</i> (Vell.) Mez	0.88	±0.001			Gitaí et al., 2014
Rokautskyia Leme, S. Heller & Zizka					
<i>R. latifolia</i> Leme, S.Heller & Zizka	1.10				Cruz et al., 2020
<i>R. microglazioui</i> Leme, S.Heller & Zizka	0.94				Cruz et al., 2020
<i>R. odoratissima</i> Leme, S.Heller & Zizka	1.10				Cruz et al., 2020
<i>R. pseudoglaszioui</i> Leme, S.Heller & Zizka	1.00				Cruz et al., 2020
<i>R. pseudoscaposa</i> Leme, S.Heller & Zizka	1.04				Cruz et al., 2020
<i>R. sanctaluciae</i> Leme, S.Heller & Zizka	1.00				Cruz et al., 2020
<i>R. scaposa</i> Leme, S.Heller & Zizka	1.04				Cruz et al., 2020
<i>R. whitmanii</i> Leme, S.Heller & Zizka	1.06				Cruz et al., 2020
Ronnbergia					
<i>R. deleonii</i> L.B.Sm.	1.38*	±0.024			Müller et al. 2019
<i>R. veitchii</i> (Baker) Aguirre-Santoro [published as <i>Aechmea veitchii</i> Baker]	0.77*	±0.008	0.385*		Müller et al. 2019
<i>R. weberbaueri</i> (Harms) Aguirre-Santoro [published as <i>Aechmea weberbaueri</i> Harms]	1.32	±0.008			Müller et al. 2019
<i>R. wuelfinghoffii</i> (E.Gross.) Aguirre-Santoro [published as <i>Aechmea wuelfinghoffii</i> E.Gross]	1.03*	±0.002	0.515*		Müller et al. 2019
Sincoraea Ule					
<i>S. amoena</i> Leme, S.Heller & Zizka	1.04				Cruz et al., 2020
<i>S. heleniceae</i> Leme, S.Heller & Zizka	1.08				Cruz et al., 2020
<i>S. ophiuroides</i> Leme, S.Heller & Zizka	1.02				Cruz et al., 2020
<i>S. ulei</i> Leme, S.Heller & Zizka	1.50				Cruz et al., 2020
xHohenmea B.R.Silva & L.F.Sousa					
<i>xH. itaipuana</i> B.R.Silva & L.F.Sousa	1.63				Gonçalves-Oliveira et al., 2020
PUYOIDEAE					
Puya Molina					
<i>P. coerulea</i> Miers	1.02	±0.013			Gitaí et al., 2014
<i>P. mirabilis</i> (Mez) L.B.Sm.	0.88				Ebert & Till, 1997
	0.99	±0.010			Gitaí et al., 2014
<i>P. raimondii</i> Harms	1.13*				Sgorbati et al., 2007
<i>P. stenothyrsa</i> (Baker) Mez	0.94				Ebert & Till, 1997

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