

# Tables S1–S10

*Annals of Botany*: Elliott TL, Zedek F, Barrett RL *et al.*

## Title: Chromosome size matters: genome evolution in the cyperid clade

TABLE S1. *Changes in species names compared with those presented in the phylogenetic reconstruction of Larridon et al. (2021).*

Name in Larridon <i>et al.</i> (2021)	Current name	Reference
<i>Fimbristylis hygrophila</i> Gordon-Gray	<i>Zulustylis hygrophila</i> (Gordon-Gray) Muasya	WCSP
<i>Fimbristylis ovata</i> (Burm.f.) J.Kern	<i>Abildgaardia ovata</i> (Burm.f.) Kral	WCSP
<i>Fimbristylis variegata</i> Gordon-Gray	<i>Zulustylis variegata</i> (Gordon-Gray) Muasya	WCSP
<i>Isolepis marginata</i> (Thunb.) A.Dietr.	<i>Ficinia marginata</i> (Thunb.) Fourc.	Muasya and Larridon (2021)
<i>Oreobolopsis clementis</i> (M.E.Jones) Dhooge & Goetgh.	<i>Trichophorm clementis</i> (M.E.Jones) S.G.Sm.	WCSP
<i>Oreobolopsis inversa</i> Dhooge & Goetgh.	<i>Trichophorum inversum</i> (Dhooge & Goetgh.)	WCSP
<i>Oreobolopsis tepalifera</i> T.Koyama & Guagl.	<i>Trichophorum tepaliferum</i> (T.Koyama & Guagl.) Lév.-Bourret & J.R.Starr	WCSP
<i>Pleurostachys stricta</i> Kunth	<i>Rhynchospora panicoides</i> Schrad. ex Nees	Thomas (2020)
<i>Schoenus curvifolius</i> (R.Br.) Roem. & Schult.	<i>Chaetospora curvifolia</i> R.Br.	Barrett <i>et al.</i> (2020)
<i>Tetraria capillaris</i> (F.Muell.) J.M.Black	<i>Netrostylis capillaris</i> (F.Muell.) R.L.Barrett, J.J.Bruhl & K.L.Wilson	Barrett <i>et al.</i> (2021)

TABLE S2. Representation of species in the phylogenetic reconstruction presented here, divided into families (*Juncaceae* and *Thurniaceae*) and tribes (*Cyperaceae*), compared with total species numbers estimated by other sources.

Clade	Number of species represented in phylogeny	Total number of species	Percentage of species represented in phylogeny	Source
Abildgaardieae	62	571	10.9	Larridon <i>et al.</i> (2021)
Bisboeckelereae	6	28	21.4	Larridon <i>et al.</i> (2021)
Bolboschoeneae	9	15	60	Larridon <i>et al.</i> (2021)
Calliscirpeae	2	2	100	Larridon <i>et al.</i> (2021)
Cariceae	679	2003	33.9	Larridon <i>et al.</i> (2021)
Carpheae	5	18	27.8	Larridon <i>et al.</i> (2021)
Chrysitricheae	9	14	64.3	Larridon <i>et al.</i> (2021)
Cladieae	3	3	100	Larridon <i>et al.</i> (2021)
Cryptangieae	28	50	56	Larridon <i>et al.</i> (2021)
Cypereae	353	1131	31.2	Larridon <i>et al.</i> (2021)
Dulichieae	3	5	60	Larridon <i>et al.</i> (2021)
Eleocharideae	76	302	25.2	Larridon <i>et al.</i> (2021)
Fuireneae	16	55	29.1	Larridon <i>et al.</i> (2021)
Hypolytreae	10	172	5.8	Larridon <i>et al.</i> (2021)
Juncaceae	65	472	13.8	POWO (1-11-2021)
Khaosokieae	1	1	100	Larridon <i>et al.</i> (2021)
Pseudoschoeneae	27	64	42.2	Larridon <i>et al.</i> (2021)
Rhynchosporae	65	399	16.3	Larridon <i>et al.</i> (2021)
Schoeneae	195	466	41.8	Larridon <i>et al.</i> (2021)
Schoenoplectieae	14	17	82.4	Larridon <i>et al.</i> (2021)
Scirpeae	24	73	32.9	Larridon <i>et al.</i> (2021)
Sclerieae	144	258	55.8	Larridon <i>et al.</i> (2021)
Sumatrosirpeae	1	4	25	Larridon <i>et al.</i> (2021)
Thurniaceae	2	4	50	POWO (1-11-2021)
Trichophoreae	12	19	63.2	Larridon <i>et al.</i> (2021)
Trilepideae	5	16	31.2	Larridon <i>et al.</i> (2021)
<b>Total</b>	<b>1816</b>	<b>6162</b>	<b>29.5</b>	

TABLE S3. *Representation of species with genome size estimations, divided into families (Juncaceae and Thurniaceae) and tribes (Cyperaceae), compared with total species numbers estimated by other sources.*

Tribe	Species represented in study	Total number of species	Percentage represented	Source
Abildgaardieae	20	571	3.5	Larridon <i>et al.</i> (2021)
Bolboschoeneae	12	15	80	Larridon <i>et al.</i> (2021)
Cariceae	287	2003	14.3	Larridon <i>et al.</i> (2021)
Carpheae	4	18	22.2	Larridon <i>et al.</i> (2021)
Chrysitricheae	7	14	50	Larridon <i>et al.</i> (2021)
Cladieae	1	3	33.3	Larridon <i>et al.</i> (2021)
Cypereae	153	1131	13.5	Larridon <i>et al.</i> (2021)
Dulichieae	3	5	60	Larridon <i>et al.</i> (2021)
Eleocharideae	34	302	11.3	Larridon <i>et al.</i> (2021)
Fuireneae	8	55	14.5	Larridon <i>et al.</i> (2021)
Hypolytreae	3	172	1.7	Larridon <i>et al.</i> (2021)
Juncaceae	80	472	16.9	POWO (1-11-2021)
Pseudoschoeneae	3	64	4.7	Larridon <i>et al.</i> (2021)
Rhynchosporeae	28	399	7	Larridon <i>et al.</i> (2021)
Schoeneae	83	466	17.8	Larridon <i>et al.</i> (2021)
Schoenoplectieae	9	17	52.9	Larridon <i>et al.</i> (2021)
Scirpeae	11	73	15.1	Larridon <i>et al.</i> (2021)
Sclerieae	7	258	2.7	Larridon <i>et al.</i> (2021)
Thurniaceae	1	4	25	POWO (1-11-2021)
Trichophoreae	3	19	15.8	Larridon <i>et al.</i> (2021)
<b>Total</b>	<b>757</b>	<b>6061</b>	<b>12.5</b>	

TABLE S4. *Pearson's correlation coefficients greater than 0.70 or less than -0.70 for 31 variables, including holoploid genome size (1C) for analyses with a minimum number of 25 observations per species.*

Retained variables	Omitted variables	Correlation coefficient
Lat	CEC	0.77
Lat	N	0.74
Lat	Temp_ann	-0.9
Lat	Isothermality	-0.89
Lat	Tempseason	0.73
Lat	Temp_max_warm_month	-0.76
Lat	Temp_min_cold_month	-0.84
Lat	Temp_wet_quart	-0.72
Lat	Temp_dry_quart	-0.77
Lat	Temp_cold_quart	-0.78
Lat	Temp_warm_quart	-0.88
Lat	Prec_wet_month	-0.72
Lat	Prec_wet_quart	-0.72
Lat	GDD	-0.87
Lat	PET	-0.91
SOC	Bdod	-0.82
SOC	CEC	0.8
SOC	N	0.88
SOC	Temp_max_warm_month	-0.82
SOC	Temp_cold_quart	-0.77
SOC	PET	-0.78
Temp_range	Temp_ann	-0.71
Temp_range	Isothermality	-0.77
Temp_range	Temp_season	0.97
Temp_range	Temp_min_cold_month	-0.89
Temp_range	Temp_dry_quart	-0.83
Temp_range	Temp_warm_quart	-0.85
Prec_ann	Prec_wet_month	0.87
Prec_ann	Prec_wet_quart	0.88
Prec_ann	Prec_warm_quart	0.77
Prec_dry_month	Prec_season	-0.7
Prec_dry_month	Prec_dry_quart	1

Only pairwise coefficients greater than 0.70 or less -0.70 are shown, as this information is relevant for subsequent analyses. The following abbreviations are used: 'Lat' (latitude); 'CEC' (cation exchange capacity); 'N' (total nitrogen); 'Temp\_ann' (mean annual air temperature); 'Isothermality' (oscillation in day- to-night temperatures relative to the summer-to-winter oscillations); 'Temp\_season' (standard deviation of the monthly mean temperatures); 'Temp\_max\_warm\_month' (mean maximum air temperature of the warmest month); 'Temp\_min\_cold\_month' (mean minimum air temperature of the coldest month); 'Temp\_wet\_quart' (mean daily air temperatures of the wettest quarter); 'Temp\_dry\_quart' (mean daily air temperatures of the driest quarter); 'Temp\_cold\_quart' (mean daily minimum air temperature of the coldest quarter); 'Temp\_warm\_quart' (mean daily minimum air temperature of the warmest quarter); 'Prec\_wet\_month' (precipitation of the wettest month); 'Prec\_wet\_quart' (precipitation of the wettest quarter); 'GDD' (growing degree days); 'PET' (potential evapotranspiration); 'Bdod' (bulk density of the fine earth fraction); 'SOC' (soil organic carbon); 'Temp\_range' (annual range of air temperature); 'Prec\_ann' (annual precipitation); 'Prec\_warm\_quart' (precipitation of the warmest quarter); 'Prec\_dry\_month' (precipitation of the driest month); 'Prec\_season' (precipitation seasonality); and 'Prec\_dry\_quart' (precipitation of the driest quarter). Only species with a minimum number of 25 observations were included in the analyses.

TABLE S5. *Pearson's correlation coefficients greater than 0.70 or less than -0.70 for 31 variables, including holoploid genome size (1C) or analyses with a minimum number of 50 observations per species.*

Retained variables	Omitted variables	Correlation coefficient
Lat	CEC	0.79
Lat	N	0.77
Lat	SOC	0.7
Lat	Temp_ann	-0.91
Lat	Isothermality	-0.9
Lat	Temp_season	0.73
Lat	Temp_max_warm_month	-0.8
Lat	Temp_min_cold_month	-0.85
Lat	Temp_wet_quart	-0.74
Lat	Temp_dry_quart	-0.79
Lat	Temp_cold_quart	-0.81
Lat	Temp_warm_quart	-0.89
Lat	Prec_wet_month	-0.73
Lat	Prec_wet_quart	-0.73
Lat	GDD	-0.87
Lat	PET	-0.93
Bdod	CEC	-0.75
Bdod	SOC	-0.82
Bdod	Temp_max_warm_month	0.81
Bdod	Temp_cold_quart	0.75
Temp_range	Temp_ann	-0.71
Temp_range	Isothermality	-0.76
Temp_range	Temp_season	0.97
Temp_range	Temp_min_cold_month	-0.88
Temp_range	Temp_dry_quart	-0.83
Temp_range	Temp_warm_quart	-0.85
Prec_ann	Prec_wet_month	0.87
Prec_ann	Prec_wet_quart	0.87
Prec_ann	Prec_warm_quart	0.77
Prec_dry_month	Prec_season	-0.71
Prec_dry_month	Prec_dry_quart	1

Only pairwise coefficients greater than 0.70 or less -0.70 are shown, as this information is relevant for subsequent analyses. The following abbreviations are used: 'Lat' (latitude); 'CEC' (cation exchange capacity); 'N' (total nitrogen); 'Temp\_ann' (mean annual air temperature); 'Isothermality' (oscillation in day- to-night temperatures relative to the summer-to-winter oscillations); 'Temp\_season' (standard deviation of the monthly mean temperatures); 'Temp\_max\_warm\_month' (mean maximum air temperature of the warmest month); 'Temp\_min\_cold\_month' (mean minimum air temperature of the coldest month); 'Temp\_wet\_quart' (mean daily air temperatures of the wettest quarter); 'Temp\_dry\_quart' (mean daily air temperatures of the driest quarter); 'Temp\_cold\_quart' (mean daily minimum air temperature of the coldest quarter); 'Temp\_warm\_quart' (mean daily minimum air temperature of the warmest quarter); 'Prec\_wet\_month' (precipitation of the wettest month); 'Prec\_wet\_quart' (precipitation of the wettest quarter); 'GDD' (growing degree days); 'PET' (potential evapotranspiration); 'Bdod' (bulk density of the fine earth fraction); 'SOC' (soil organic carbon); 'Temp\_range' (annual range of air temperature); 'Prec\_ann' (annual precipitation); 'Prec\_warm\_quart' (precipitation of the warmest quarter); 'Prec\_dry\_month' (precipitation of the driest month); 'Prec\_season' (precipitation seasonality); and 'Prec\_dry\_quart' (precipitation of the driest quarter). Only species with a minimum number of 50 observations were included in the analyses.

TABLE S6. *Pearson's correlation coefficients greater than 0.70 or less than -0.70 for 31 variables, including mean chromosome size (2C/2n) for analyses with a minimum number of 25 observations per species.*

Retained variables	Omitted variables	Correlation coefficient
Lat	CEC	0.77
Lat	N	0.75
Lat	SOC	0.7
Lat	Temp_ann	-0.88
Lat	Isothermality	-0.88
Lat	Temp_max_warm_month	-0.77
Lat	Temp_min_cold_month	-0.8
Lat	Temp_dry_quart	-0.75
Lat	Temp_cold_quart	-0.79
Lat	Temp_warm_quart	-0.84
Lat	Prec_wet_month	-0.77
Lat	Prec_wet_quart	-0.77
Lat	GDD	-0.85
Lat	PET	-0.93
Bdod	CEC	-0.77
Bdod	N	-0.7
Bdod	SOC	-0.85
Bdod	Temp_max_warm_month	0.83
Bdod	Temp_cold_quart	0.78
Temp_range	Isothermality	-0.74
Temp_range	Temp_season	0.97
Temp_range	Temp_min_cold_month	-0.87
Temp_range	Temp_dry_quart	-0.8
Temp_range	Temp_warm_quart	-0.83
Prec_ann	Prec_wet_month	0.88
Prec_ann	Prec_wet_quart	0.88
Prec_ann	Prec_warm_quart	0.73
Prec_ann	Prec_cold_quart	0.72
Prec_dry_month	Prec_dry_quart	1

Only pairwise coefficients greater than 0.70 or less -0.70 are shown, as this information is relevant for subsequent analyses. The following abbreviations are used: 'Lat' (latitude); 'CEC' (cation exchange capacity); 'N' (total nitrogen); 'Temp\_ann' (mean annual air temperature); 'Isothermality' (oscillation in day- to-night temperatures relative to the summer-to-winter oscillations); 'Temp\_season' (standard deviation of the monthly mean temperatures); 'Temp\_max\_warm\_month' (mean maximum air temperature of the warmest month); 'Temp\_min\_cold\_month' (mean minimum air temperature of the coldest month); 'Temp\_wet\_quart' (mean daily air temperatures of the wettest quarter); 'Temp\_dry\_quart' (mean daily air temperatures of the driest quarter); 'Temp\_cold\_quart' (mean daily minimum air temperature of the coldest quarter); 'Temp\_warm\_quart' (mean daily minimum air temperature of the warmest quarter); 'Prec\_wet\_month' (precipitation of the wettest month); 'Prec\_wet\_quart' (precipitation of the wettest quarter); 'GDD' (growing degree days); 'PET' (potential evapotranspiration); 'Bdod' (bulk density of the fine earth fraction); 'SOC' (soil organic carbon); 'Temp\_range' (annual range of air temperature); 'Prec\_ann' (annual precipitation); 'Prec\_warm\_quart' (precipitation of the warmest quarter); 'Prec\_cold\_quart' (precipitation of the coldest quarter); 'Prec\_dry\_month' (precipitation of the driest month); 'Prec\_season' (precipitation seasonality); and 'Prec\_dry\_quart' (precipitation of the driest quarter). Only species with a minimum number of 25 observations were included in the analyses.

TABLE S7. *Pearson's correlation coefficients greater than 0.70 or less than -0.70 for 31 variables, including mean chromosome size (2C/2n) for analyses with a minimum number of 50 observations per species.*

Retained variables	Omitted variables	Correlation coefficient
Lat	CEC	0.79
Lat	N	0.77
Lat	SOC	0.71
Lat	Temp_ann	-0.89
Lat	Isothermality	-0.89
Lat	Temp_max_warm_month	-0.8
Lat	Temp_min_cold_month	-0.8
Lat	Temp_dry_quart	-0.76
Lat	Temp_cold_quart	-0.81
Lat	Temp_warm_quart	-0.84
Lat	Prec_wet_month	-0.77
Lat	Prec_wet_quart	-0.77
Lat	GDD	-0.85
Lat	PET	-0.93
Bdod	CEC	-0.78
Bdod	SOC	-0.85
Bdod	Temp_max_warm_month	0.83
Bdod	Temp_cold_quart	0.78
Temp_range	Isothermality	-0.74
Temp_range	Temp_season	0.98
Temp_range	Temp_min_cold_month	-0.88
Temp_range	Temp_dry_quart	-0.8
Temp_range	Temp_warm_quart	-0.84
Prec_ann	Prec_wet_month	0.88
Prec_ann	Prec_wet_quart	0.89
Prec_ann	Prec_warm_quart	0.74
Prec_ann	Prec_cold_quart	0.74
Prec_dry_month	Prec_dry_quart	1

Only pairwise coefficients greater than 0.70 or less -0.70 are shown, as this information is relevant for subsequent analyses. The following abbreviations are used: 'Lat' (latitude); 'CEC' (cation exchange capacity); 'N' (total nitrogen); 'Temp\_ann' (mean annual air temperature); 'Isothermality' (oscillation in day- to-night temperatures relative to the summer-to-winter oscillations); 'Temp\_season' (standard deviation of the monthly mean temperatures); 'Temp\_max\_warm\_month' (mean maximum air temperature of the warmest month); 'Temp\_min\_cold\_month' (mean minimum air temperature of the coldest month); 'Temp\_wet\_quart' (mean daily air temperatures of the wettest quarter); 'Temp\_dry\_quart' (mean daily air temperatures of the driest quarter); 'Temp\_cold\_quart' (mean daily minimum air temperature of the coldest quarter); 'Temp\_warm\_quart' (mean daily minimum air temperature of the warmest quarter); 'Prec\_wet\_month' (precipitation of the wettest month); 'Prec\_wet\_quart' (precipitation of the wettest quarter); 'GDD' (growing degree days); 'PET' (potential evapotranspiration); 'Bdod' (bulk density of the fine earth fraction); 'SOC' (soil organic carbon); 'Temp\_range' (annual range of air temperature); 'Prec\_ann' (annual precipitation); 'Prec\_warm\_quart' (precipitation of the warmest quarter); 'Prec\_cold\_quart' (precipitation of the coldest quarter); 'Prec\_dry\_month' (precipitation of the driest month); 'Prec\_season' (precipitation seasonality); and 'Prec\_dry\_quart' (precipitation of the driest quarter). Only species with a minimum number of 50 observations were included in the analyses.

TABLE S8. Results from multiple phylogenetic generalized least squares (PGLS) analyses with holoploid genome size (1C: Mbp) as the response variable.

Predictor variable(s)	logLik	Estimate	StdErr	t-value	R <sup>2</sup> <sub>adj</sub>	AIC	delta AIC	AICw	P	P (corrected)
EOO	-203.59	-0.03	0.01	-2.71	0.01	411.18	0	0.39	0.01	0.06
Prec_dry_month	-203.63	0.03	0.01	2.7	0.01	411.25	0.07	0.37	0.01	0.06
Prec_ann	-205.58	0.1	0.06	1.82	0.01	415.16	3.99	0.05	0.07	0.28
Bdod	-205.86	-0.29	0.17	-1.66	0	415.72	4.54	0.04	0.1	0.3
Intercept	-207.25	NA	NA	NA	0	416.49	5.32	0.03	NA	NA
Diurnal_range	-206.2	-0.13	0.09	-1.45	0	416.4	5.22	0.03	0.15	0.3
Latitude	-206.16	0.03	0.02	1.47	0	416.32	5.14	0.03	0.14	0.3
pH	-207.17	-0.09	0.23	-0.39	0	418.34	7.16	0.01	0.7	0.84
P	-207.23	0	0.01	-0.18	0	418.46	7.28	0.01	0.86	0.94
Temp_range	-207.06	-0.05	0.08	-0.61	0	418.12	6.94	0.01	0.54	0.76
Niche	-207.02	-0.01	0.02	-0.68	0	418.04	6.86	0.01	0.5	0.76
Elevation	-207.08	0.01	0.02	0.57	0	418.17	6.99	0.01	0.57	0.76

Results are ranked in order of descending AICw values. Analyses were performed using the R package CAPER v.1.0.1 (Orme, 2013) and all variables were log transformed, except for Prec\_dry\_month, P and Latitude, which were transformed by the square root. Lambda was fixed at 0.879. The following abbreviations are used to represent the environmental variables included in these analyses: pH (soil pH); 'Bdod' (bulk density of the fine earth fraction); 'P' (available phosphorous); 'Diurnal\_range' (mean diurnal air temperature range); 'Temp\_range' (annual range of air temperature); 'Prec\_ann' (annual precipitation); 'Prec\_dry\_month' (precipitation of the driest month); 'Prec\_cold\_quart' (precipitation of the coldest quarter); 'EOO' (extent of occurrence), and 'Niche' (niche size). Corrections for multiple comparisons were implemented using the method of Benjamini and Hochberg (1995), and the alpha value was set at 0.05. Only species with a minimum number of 50 observations were included in the analyses.



TABLE S9. Results from multiple phylogenetic generalized least squares (PGLS) analyzes with mean chromosome size ( $2C/2n$ ) as the response variable.

Predictor variable(s)	logLik	Estimate	StdErr	t-value	$R^2_{adj}$	AIC	delta AIC	AICw	$P$	$P$ (corrected)
EOO	-236.7	-0.12	0.02	-5.05	0.08	477.41	0	1	0	<0.001
Prec_ann	-246.26	0.25	0.11	2.34	0.02	496.52	19.11	0	0.02	0.08
Prec_dry_month	-246.27	0.05	0.02	2.33	0.02	496.54	19.14	0	0.02	0.08
Niche	-247.1	-0.07	0.04	-1.94	0.01	498.21	20.8	0	0.05	0.15
P	-247.61	0.03	0.02	1.65	0.01	499.22	21.82	0	0.1	0.24
Latitude	-247.88	-0.07	0.05	-1.48	0	499.76	22.36	0	0.14	0.28
Intercept	-248.98	NA	NA	NA	0	499.96	22.56	0	NA	NA
Diurnal_range	-248.41	0.19	0.18	1.06	0	500.83	23.42	0	0.29	0.46
Bdod	-248.46	0.31	0.31	1.02	0	500.93	23.52	0	0.31	0.46
pH	-248.73	0.29	0.41	0.71	0	501.46	24.05	0	0.48	0.56
Temp_range	-248.75	-0.11	0.16	-0.67	0	501.51	24.1	0	0.5	0.56
Elevation	-248.76	0.03	0.04	0.66	0	501.52	24.12	0	0.51	0.56

Results are ranked in order of descending AICw values. Analyses were performed using the R package CAPER v.1.0.1 (Orme, 2013) and all variables were log transformed, except for P and Prec\_dry\_month, which were transformed by the square root. Lambda was fixed at 0.903. The following abbreviations are used to represent the environmental variables included in these analyses: pH (soil pH); 'Bdod' (bulk density of the fine earth fraction); 'P' (available phosphorous); 'Diurnal\_range' (mean diurnal air temperature range); 'Temp\_range' (annual range of air temperature); 'Prec\_ann' (annual precipitation); 'Prec\_dry\_month' (precipitation of the driest month); 'EOO' (extent of occurrence); and 'Niche' (niche size). Corrections for multiple comparisons were implemented using the method of Benjamini and Hochberg (1995), and the alpha value was set at 0.05. Only species with a minimum number of 50 observations were included in the analyses.

TABLE S10. Association between diploid chromosome number and holoploid genome size (Mbp) in three tribes of Cyperaceae and the family Juncaceae.

Clade	logLik	AIC	$R^2_{adj}$	Estimate	StdErr	P
Abildgaardieae	-2.36	8.72	-0.08	-0.04	0.1	0.69
Cypereae	-11.39	26.79	0.01	-0.11	0.1	0.25
Juncaceae	-35.87	75.74	0.08	-0.33	0.15	0.04*
Rhynchosporeae	-20.36	44.72	-0.05	0.1	0.27	0.7

Analyses were performed using the R package CAPER v.1.0.1 (Orme, 2013), and both variables were log transformed.  
 \* indicates a significant association between variables assessed with alpha set at 0.05.

## LITERATURE CITED

- Barrett RL, Bruhl JJ, Wilson KL. 2021.** *Netrostylis*, a new genus of Australasian Cyperaceae removed from *Tetraria*. *Telopea* **24**: 53–60.
- Barrett RL, Wilson KL, Bruhl JJ. 2020.** Reinstatement and revision of the genus *Chaetospora* (Cyperaceae: Schoeneae). *Telopea* **23**: 95–112.
- Benjamini Y, Hochberg Y. 1995.** Controlling the false discovery rate: a practical and powerful approach to multiple testing. *Journal of the Royal Statistical Society: Series B (Methodological)* **57**: 89–300.
- Larridon I, Zuntini AR, L  veill  -Bourret   , et al. 2021.** A new classification of Cyperaceae (Poales) supported by phylogenomic data. *Journal of Systematics and Evolution* **59**: 852–895.
- Orme D, Freckleton R, Thomas G, et al. 2013.** *Caper: comparative analysis of phylogenetics and evolution in R*. <https://cran.r-project.org/web/packages/caper/vignettes/caper.pdf>.
- POWO. 2022.** Plants of the World Online. Facilitated by the Royal Botanic Gardens, Kew. Published on the Internet; <http://www.plantsoftheworldonline.org/>. Retrieved 11 January 2022.
- Thomas, WW. 2020.** Two new species of *Rhynchospora* (Cyperaceae) from Bahia, Brazil, and new combinations in *Rhynchospora* section *Pleurostachys*. *Brittonia* **72**: 273–281.
- WCVP. 2022.** World Checklist of Vascular Plants, version 2.0. Facilitated by the Royal Botanic Gardens, Kew. Published on the Internet; <http://wcvp.science.kew.org/>