

Supplementary Table 6. Overview of multiple regression and multiple phylogenetic generalized least squares (PGLS) analyses of genomic characters and bioclimatic variables in studied Bromelioideae. Bold font indicates significant associations after Bonferroni correction (p_i^* -value).

multiple regression	Regression Slope Estimate	Standard error	t-test statistic	p-value	p_i^* -value
2C ~ bio02	-0.0938542	0.0885182	-1.060	0.2906	2.0342
2C ~ bio04	-0.0013134	0.0022477	-0.584	0.5598	3.9186
2C ~ bio05	0.1062077	0.0837800	1.268	0.2067	1.4469
2C ~ bio06	-0.0962120	0.0810294	-1.187	0.2368	1.6576
2C ~ bio13	-0.0006685	0.0005510	-1.213	0.2267	1.5869
2C ~ bio14	0.0008622	0.0013000	0.663	0.5081	3.5567
2C ~ bio18	-0.0005195	0.0002698	-1.925	0.0559	0.3913
Multiple R ² : 0.1165 p-value: 0.004					
multiple PGLS	Regression Slope Estimate	Standard error	t-test statistic	p-value	p_i^* -value
2C ~ bio02	0.0789	0.1089	0.7244	0.4709	3.2963
2C ~ bio04	0.0027	0.0027	0.9995	0.3205	2.2438
2C ~ bio05	-0.0587	0.1023	-0.5741	0.5675	3.9725
2C ~ bio06	0.0773	0.0982	0.7865	0.4338	3.0369
2C ~ bio13	-0.0006	0.0007	-0.8020	0.4249	2.9741
2C ~ bio14	-0.0013	0.0015	-0.8659	0.3891	2.7238
2C ~ bio18	-0.0001	0.0004	-0.3551	0.7234	5.0641
λ (ML) : 0.931 95.0% CI : (0.831, 0.980)					
Multiple R ² : 0.0819 p-value: 0.4156					
Cx ~ bio02	7.36E-02	1.89E-02	3.9029	0.0002	0.0015
Cx ~ bio04	1.43E-03	4.65E-04	3.0775	0.0030	0.0207
Cx ~ bio05	-6.68E-02	1.71E-02	-3.9150	0.0002	0.0014
Cx ~ bio06	5.76E-02	1.61E-02	3.5812	0.0006	0.0043
Cx ~ bio13	9.82E-05	1.41E-04	0.6988	0.4869	3.4085
Cx ~ bio14	-1.10E-04	2.85E-04	-0.3864	0.7003	4.9023
Cx ~ bio18	-3.48E-05	6.69E-05	-0.5199	0.6047	4.2332
λ (ML) : 0.998 95.0% CI : (0.966, NA)					
Multiple R ² : 0.2026 p-value: 0.0184					
GC ~ bio02	0.7703	0.2221	3.4684	0.0008	0.0059
GC ~ bio04	0.0123	0.0057	2.1693	0.0330	0.2311
GC ~ bio05	-0.7687	0.2102	-3.6573	0.0004	0.0032
GC ~ bio06	0.5837	0.2034	2.8698	0.0052	0.0368
GC ~ bio13	-0.0002	0.0014	-0.1532	0.8786	6.1506
GC ~ bio14	-0.0004	0.0029	-0.1671	0.8677	6.0741
GC ~ bio18	0.0007	0.0007	1.0560	0.2941	2.0589
λ (ML) : 0.786 95.0% CI : (NA, 0.952)					
Multiple R ² : 0.2737 p-value: 0.0004					