

Supplementary Table 4 – ANOVA of trait differences between the three species, *Y. aloifolia*, *Y. filamentosa*, and the hybrid *Y. gloriosa*.

ANOVA of trait differences between species						
	Df	Sum S	Mean Sq	F value	Pr(>F)	adjusted P
Leaf thickness	2	3.14E+06	1.57E+06	100.3775	9.62E-21	4.81E-20
residual	66	1.03E+06	1.57E+04			
IAS	2	2.21E-01	1.11E-01	47.19602	2.19E-13	4.68E-13
residual	65	1.52E-01	2.34E-03			
Adaxial cell area	2	1.19E+07	5.95E+06	68.74183	7.30E-17	2.19E-16
residual	66	5.71E+06	8.65E+04			
Abaxial cell area	2	1.08E+07	5.42E+06	59.04744	1.99E-15	4.97E-15
residual	66	6.06E+06	9.18E+04			
AUC_W	2	1.89E+03	9.44E+02	10.63758	5.85E-05	9.75E-05
residual	113	1.00E+04	8.88E+01			
AUC_D	2	5.93E+02	2.97E+02	5.179283	7.27E-03	7.79E-03
residual	98	5.61E+03	5.73E+01			
AUC_W_night	2	4.28E+02	2.14E+02	234.2304	6.36E-41	9.54E-40
residual	113	1.03E+02	9.14E-01			
AUC_D_night	2	1.89E+02	9.44E+01	81.51904	1.69E-21	1.27E-20
residual	97	1.12E+02	1.16E+00			
d1 delta	2	1.18E+05	5.90E+04	7.342508	1.09E-03	1.26E-03
residual	93	7.47E+05	8.04E+03			
d7 delta	2	2.30E+05	1.15E+05	17.26884	4.19E-07	7.86E-07
residual	93	6.20E+05	6.67E+03			
maxTA	2	2.40E+05	1.20E+05	7.443693	9.93E-04	1.24E-03
residual	95	1.53E+06	1.61E+04			
adaxial SD	2	1.17E+04	5.85E+03	9.727192	3.00E-04	4.09E-04
residual	46	2.76E+04	6.01E+02			
abaxial SD	2	4.16E+03	2.08E+03	3.174765	5.13E-02	5.13E-02
residual	45	2.95E+04	6.55E+02			
AUC_RW	2	1.48E+03	7.40E+02	9.132095	2.25E-04	3.37E-04
residual	102	8.26E+03	8.10E+01			
AUC_RW_night	2	1.21E+02	6.07E+01	65.84812	3.80E-19	1.43E-18
residual	103	9.49E+01	9.21E-01			

Abbreviations:

AUC_W	Area under the curve, LiCor data well-watered
AUC_D	Area under the curve, LiCor data drought-stressed
AUC_W_night	Area under the curve, LiCor data well-watered, night only
AUC_D_night	Area under the curve, LiCor data drought-stressed, night only
AUC_RW	Area under the curve, LiCor data re-watered

AUC_RW_night	Area under the curve, LiCor data re-watered, night only
d1delta	Leaf acid accumulation, well-watered
d7delta	Leaf acid accumulation, drought-stressed
maxTA	Maximum amount of acid accumulated (well-watered)
abaxial SD	Mean stomatal density on abaxial side of the leaf
adaxial SD	Mean stomatal density on adaxial side of the leaf