

Supplementary Table 6 – Correlations of traits in *Y. gloriosa*, on both raw data (individual plants) and genotypic means.

Correlations on raw data							
x	y	cor	R2	df	t.value	p.value	padj
maxTA_d1	d7delta	0.516884	0.26717	82	5.467624	4.81E-07	2.50E-05
AUC_D	AUC_W	0.490753	0.240839	81	5.069189	2.48E-06	6.44E-05
meancell	thickum	0.575391	0.331075	46	4.771478	1.88E-05	0.000327
AUC_D_night	AUC_W	0.339206	0.115061	81	3.245257	0.001707	0.022189
thickum	AUC_W	-0.47815	0.228629	32	-3.0797	0.004234	0.04403
IAS	AUC_W	-0.45938	0.211029	31	-2.87953	0.007159	0.062046
AUC_D_night	AUC_W_night	0.236805	0.056077	81	2.193641	0.031128	0.210213
IAS	meancell	0.308513	0.09518	45	2.175701	0.034869	0.210213
meancell	AUC_W	-0.36021	0.12975	32	-2.18427	0.036383	0.210213
IAS	thickum	0.271374	0.073644	45	1.891408	0.065017	0.338088
AUC_W	d1delta	-0.20811	0.043311	65	-1.71541	0.091034	0.364136
AUC_D_night	d7delta	0.213381	0.045531	64	1.747289	0.085384	0.364136
AUC_D_night	maxTA_d1	0.213933	0.045767	66	1.779194	0.079812	0.364136
d7delta	AUC_D	0.185864	0.034545	63	1.501413	0.138245	0.467505
IAS	AUC_D	-0.29473	0.086865	24	-1.51099	0.143848	0.467505
IAS	maxTA_d1	0.31441	0.098853	22	1.553493	0.134574	0.467505
AUC_W_night	thickum	-0.18654	0.034797	32	-1.07407	0.290823	0.639356
AUC_W_night	AUC_D	-0.11541	0.01332	81	-1.0457	0.298809	0.639356
IAS	AUC_W_night	-0.20386	0.04156	31	-1.15941	0.255144	0.639356
IAS	AUC_D_night	-0.21104	0.044536	25	-1.07949	0.290675	0.639356
meancell	d7delta	-0.26111	0.068181	21	-1.23958	0.228805	0.639356
meanSD	AUC_D	0.293667	0.08624	14	1.149486	0.269615	0.639356
meanSD	AUC_W_night	-0.23628	0.05583	18	-1.03168	0.315888	0.639356
AUC_D	d1delta	-0.14195	0.020151	63	-1.13826	0.259323	0.639356
AUC_W_night	d1delta	-0.12343	0.015235	65	-1.0028	0.319678	0.639356
AUC_D_night	d1delta	0.140285	0.01968	64	1.133487	0.261238	0.639356
meanSD	d1delta	-0.23486	0.055161	16	-0.96649	0.348183	0.670574
meancell	d1delta	0.19442	0.037799	22	0.929649	0.362642	0.673478
meancell	meanSD	-0.24757	0.061289	12	-0.88514	0.39347	0.690383
d1delta	d7delta	0.093933	0.008823	81	0.849155	0.398298	0.690383
IAS	d7delta	0.169986	0.028895	21	0.79048	0.438084	0.721418
AUC_W	maxTA_d1	-0.09367	0.008774	67	-0.7701	0.44395	0.721418
thickum	AUC_D	-0.13593	0.018477	25	-0.68602	0.499015	0.768127
meancell	AUC_D	-0.13492	0.018204	25	-0.68083	0.502237	0.768127
AUC_D_night	thickum	-0.11751	0.013808	26	-0.60335	0.551501	0.801692
thickum	meanSD	0.172658	0.029811	12	0.607225	0.555018	0.801692
meanSD	AUC_D_night	0.156352	0.024446	13	0.570753	0.5779	0.812184
AUC_W_night	meancell	-0.08123	0.006599	32	-0.46105	0.647882	0.826928

IAS	meanSD	0.128288	0.016458	12	0.448107	0.662059	0.826928
IAS	d1delta	0.087654	0.007683	22	0.41272	0.683806	0.826928
thickum	d7delta	-0.11332	0.01284	21	-0.52264	0.606694	0.826928
meanSD	maxTA_d1	0.111805	0.0125	16	0.450043	0.658717	0.826928
AUC_D	maxTA_d1	0.051312	0.002633	65	0.414238	0.680063	0.826928
thickum	maxTA_d1	0.073442	0.005394	22	0.345405	0.733071	0.828688
meancell	maxTA_d1	-0.07895	0.006233	22	-0.37147	0.713839	0.828688
AUC_W_night	d7delta	-0.04302	0.001851	65	-0.3472	0.729565	0.828688
AUC_D_night	meancell	0.048035	0.002307	26	0.245212	0.808217	0.875569
thickum	d1delta	0.0559	0.003125	22	0.262606	0.795298	0.875569
AUC_W	meanSD	-0.04439	0.00197	18	-0.18852	0.852581	0.900431
meanSD	d7delta	0.037321	0.001393	16	0.149387	0.883115	0.900431
AUC_W_night	maxTA_d1	0.01897	0.00036	67	0.155306	0.877047	0.900431
AUC_W	d7delta	0.01251	0.000156	65	0.100863	0.91997	0.91997

Correlations on genotypic means

x	y	cor	R2	df	t.value	p.value	padj
meancell	thickum	0.682529	0.465846	24	4.575026	0.000122	0.00443
AUC_D	AUC_W	0.717565	0.5149	20	4.607452	0.00017	0.00443
maxTA_d1	d7delta	0.579777	0.336141	22	3.337599	0.002983	0.051712
IAS	meancell	0.499083	0.249084	24	2.821519	0.009444	0.070159
IAS	AUC_W	-0.59105	0.349339	17	-3.02114	0.0077	0.070159
thickum	AUC_W	-0.58295	0.339826	17	-2.95817	0.008805	0.070159
meancell	AUC_W	-0.58217	0.338924	17	-2.95223	0.008917	0.070159
AUC_W_night	thickum	-0.49997	0.249969	17	-2.38028	0.02927	0.169113
AUC_W	d1delta	-0.48973	0.239836	18	-2.38308	0.028395	0.169113
IAS	thickum	0.401037	0.16083	24	2.144692	0.04231	0.220012
AUC_W	maxTA_d1	-0.41711	0.17398	18	-1.94711	0.067296	0.318128
AUC_W_night	AUC_D	-0.37138	0.137925	20	-1.78881	0.088804	0.333418
IAS	AUC_D	-0.39844	0.158752	17	-1.79111	0.091097	0.333418
IAS	AUC_D_night	-0.41138	0.169232	17	-1.86091	0.080142	0.333418
meanSD	AUC_D	0.480917	0.231281	11	1.81921	0.096178	0.333418
IAS	maxTA_d1	0.408033	0.166491	13	1.61143	0.131088	0.426036
AUC_D_night	AUC_W	0.317606	0.100873	20	1.497934	0.149768	0.458114
AUC_W_night	d1delta	-0.32345	0.104623	18	-1.45026	0.164188	0.47432
meancell	AUC_D	-0.32166	0.103466	17	-1.40068	0.179297	0.490708
thickum	AUC_D	-0.30447	0.092699	17	-1.31791	0.205017	0.533044
AUC_D_night	thickum	-0.28913	0.083594	17	-1.24529	0.229919	0.543444
AUC_W	d7delta	-0.28639	0.082017	18	-1.26815	0.220902	0.543444
IAS	AUC_W_night	-0.27801	0.077292	17	-1.19332	0.249131	0.563252
IAS	d7delta	0.305763	0.093491	13	1.157898	0.267737	0.580096
meancell	d1delta	0.279184	0.077944	13	1.048297	0.313601	0.652291
AUC_W_night	d7delta	-0.22718	0.051613	18	-0.98974	0.33542	0.67084
meancell	d7delta	-0.25806	0.066594	13	-0.96306	0.353088	0.673016

meanSD	AUC_W_night	-0.23572	0.055566	15	-0.93943	0.362393	0.673016
AUC_W_night	meancell	-0.2117	0.044817	17	-0.8931	0.38427	0.689036
d7delta	AUC_D	0.176761	0.031245	18	0.761933	0.455969	0.728608
AUC_D	d1delta	-0.19036	0.036236	18	-0.82267	0.421463	0.728608
AUC_D_night	d7delta	0.168961	0.028548	18	0.727298	0.476397	0.728608
AUC_D_night	maxTA_d1	0.185096	0.034261	18	0.799105	0.434648	0.728608
d1delta	d7delta	0.15544	0.024162	22	0.738049	0.468285	0.728608
thickum	meanSD	0.19293	0.037222	10	0.62178	0.547999	0.749894
meanSD	AUC_D_night	0.198386	0.039357	10	0.640074	0.536513	0.749894
meanSD	d1delta	-0.20904	0.043699	10	-0.67599	0.514376	0.749894
AUC_D_night	d1delta	0.15032	0.022596	18	0.645085	0.52701	0.749894
AUC_W_night	maxTA_d1	-0.13475	0.018157	18	-0.57694	0.571125	0.7615
AUC_D_night	meancell	-0.07564	0.005721	17	-0.31275	0.758276	0.875571
AUC_W	meanSD	0.073861	0.005456	15	0.286848	0.778153	0.875571
AUC_D_night	AUC_W_night	-0.08219	0.006755	20	-0.36882	0.716141	0.875571
IAS	meanSD	-0.093	0.008649	10	-0.29536	0.773757	0.875571
IAS	d1delta	0.071059	0.005049	13	0.256855	0.801311	0.875571
thickum	d1delta	0.068544	0.004698	13	0.247722	0.808219	0.875571
thickum	maxTA_d1	0.094089	0.008853	13	0.340754	0.738732	0.875571
meancell	meanSD	-0.13453	0.018097	10	-0.42931	0.676801	0.875571
meanSD	maxTA_d1	0.081716	0.006677	10	0.259275	0.800682	0.875571
meanSD	d7delta	-0.05725	0.003277	10	-0.18133	0.859734	0.912371
AUC_D	maxTA_d1	-0.03399	0.001155	18	-0.14427	0.886888	0.922363
meancell	maxTA_d1	0.023962	0.000574	13	0.08642	0.932449	0.950732
thickum	d7delta	-0.00293	8.61E-06	13	-0.01058	0.991721	0.991721

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
meancell	Mean cell area (um)
thickum	Mean leaf thickness (um)
IAS	Intercellular airspace
d1delta	Leaf acid accumulation, well-watered
d7delta	Leaf acid accumulation, drought-stressed
maxTA_d1	Maximum amount of acid accumulated (well-watered)
meanSD	Mean stomatal density