biology

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Supplementary Materials

Anthocyanins are Key Regulators of Drought Stress Tolerance in Tobacco

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Genotype	Chl a mg 10 g^{-1}	Chl b mg 10 g^{-1}	Chl a+b	Chl a:b	Carotenoids mg 10 g^{-1}
AN1	65.0	22.7	87.8	3.0	13.01
WT	60.1	19.0	79.1	3.2	14.32
Sig.	ns	ns	ns	ns	ns

Table S1. Photosynthetic pigments in AN1 and WT leaves. ns = not significant according to ANOVA ($p < 0.05$).

	Abaxial		**Adaxial**	
Genotype	Stomatal length µm	Stomatal width µm	Stomatal length µm	Stomatal width µm
AN1	59.16	40.07	56.23	38.10
WT	57.05	40.72	55.41	38.58
Sig.	ns	ns	ns	ns

Table S2. Stomata dimension in the abaxial and adaxial side of AN1 and WT leaves. ns = not significant according to ANOVA ($p < 0.05$).

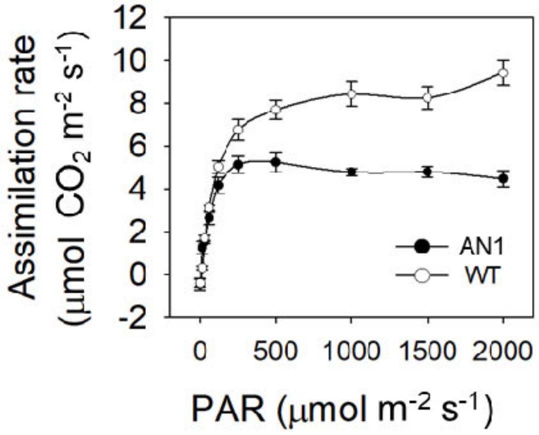

Figure S1. CO_2 assimilation rate in AN1 and WT plants as function of gas exchange analyzer chamber light intensity (from 0 to 2000 µmol m^{-2} s^{-1} PAR).

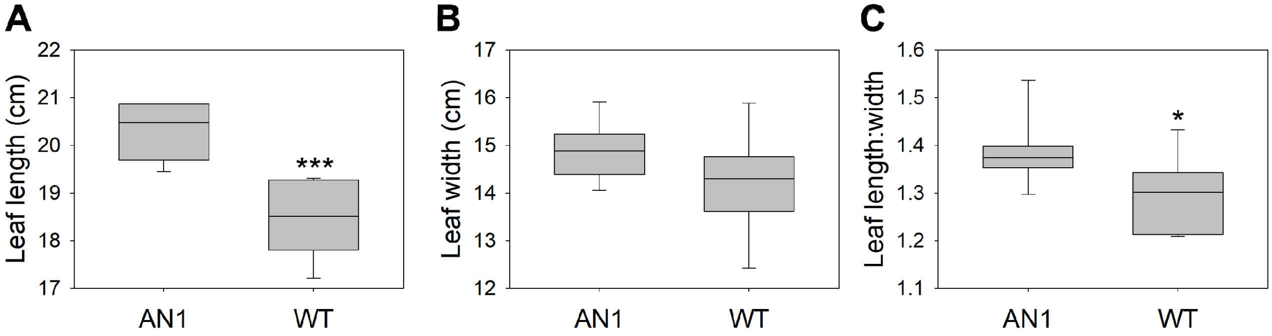

Figure S2. Leaf shape traits in AN1 and WT leaves. Asterisks indicate significant differences according to ANOVA (* = $p < 0.05$; *** = $p < 0.001$).

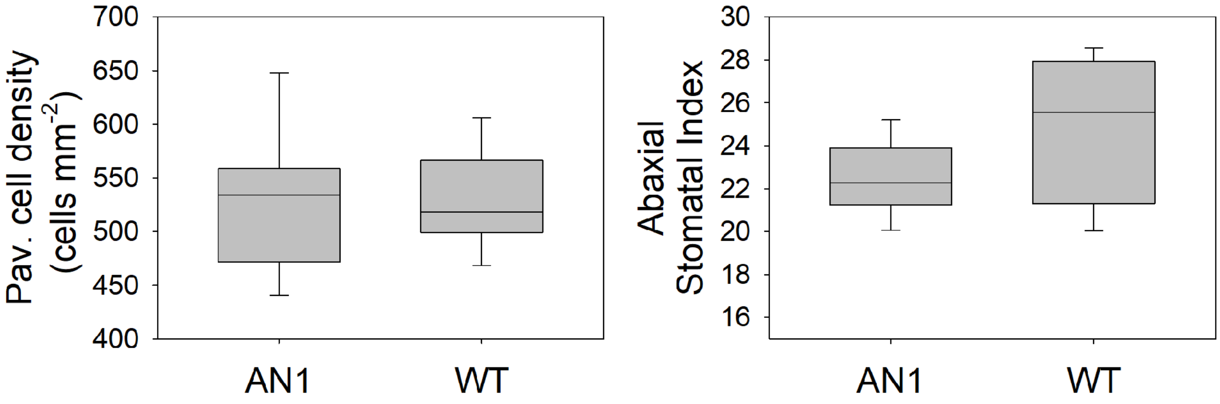

Figure S3. Abaxial stomatal traits in AN1 and WT leaves.

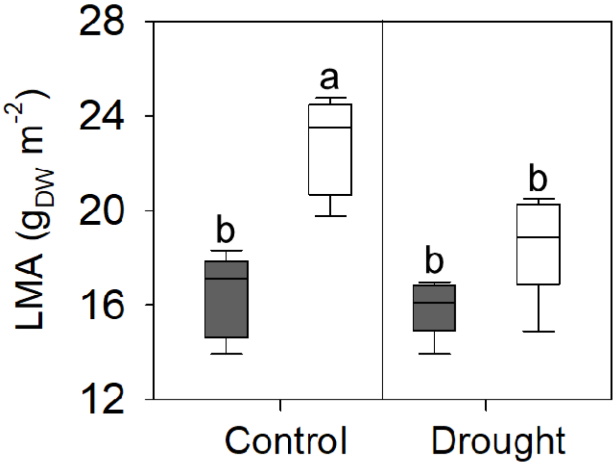

Figure S4. Leaf mass per area (LMA) in AN1 plants (grey boxes) and WT (white boxes) grown under control and drought conditions. Tukey post-hoc test was performed on significative differences according to two-way ANOVA ($p < 0.05$). Different letters indicate significant differences.