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Supplementary Material

Changes in leaf stomatal conductance, petiole hydraulics and vessel morphology in grapevine (*Vitis vinifera* cv. Chasselas) under different light and irrigation regimes

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Table S1. Monthly and annual mean air temperature (°C) and rainfalls (mm) at the experimental site of Leytron during season 2013 and long-term averages (1981–2010)

Month	Temperature (C°)		Rainfalls (mm)	
	2013	1981–2010	2013	1981–2010
January	1.0	−0.1	19	51
February	0.0	1.8	61	47
March	5.2	6.5	49	42
April	10.9	10.4	50	35
May	12.5	14.9	96	49
June	18.1	18.1	23	54
July	21.6	20.1	92	58
August	20.2	19.2	42	57
September	16.3	15.2	32	44
October	12.7	10.3	66	52
November	3.8	4.3	96	52
December	0.4	0.6	17	64
Year	10.2	10.1	643	603

Table S2. Reference evapotranspiration (ET_0), Crop evapotranspiration (ET_c), crop coefficient (k_c) of Chasselas vines at different phenological stages and irrigation amounts (mm and $L.vine^{-1}$) applied to irrigated vines

Before bloom and after veraison the vines did not receive any irrigation. Season 2013, Leytron Switzerland

Stage	ET ₀ (mm)	k _c	ET _c (mm)	Irrigation (mm) (L.vine ⁻¹)	
Budburst-Bloom (70 days)	261	0.3	78	0	0
Bloom-veraison (56 days)	299	0.7	209	72	129
Veraison-Harvest (55 days)	145	0.7	102	0	0

Table S3. Gene-specific primer pairs used in qPCR analysis

<i>Vitis</i> gene	Primer sequence	
	Forward	Reverse
EF1- α	5'-GCAGCCAAGAAGAAGTGAAG-3'	5'- CCAAGGAAGAAGGCAGAAAAC-3'
ACT	5'-ACTACTGCTGAACGGGAAA-3'	5'-GAGAGATGGCTGGAAGAGGA-3'
TIP1.1	5'-CATTGCCGCCATCATCTAC-3'	5'-AGAAATCTCAACCCCCACCAG-3'
TIP2.1	5'-GGAGGAAGAGCAAGTTGTGC-3'	5'-GCACATCACCAACCTCATT-3'
PIP2.1	5'-CAGGAGCACCACTCATGTATG-3'	5'-TCATGCCCTCATACATATCAATAAC-3'