

**SUPPLEMENTARY DATA**

Tziros, G. T., Ainalidou, A., Samaras, A., Kollaros, M., Karamanoli, K., Menkissoglu-Spiroudi, U., & Karaoglanidis, G. S. (2022). Differences in defence-related gene expression and metabolite accumulation reveal insights into the resistance of Greek grape wine cultivars to Botrytis bunch rot. *OENO One*, 56(2).  
<https://doi.org/10.20870/oeno-one.2022.56.2.5451>

## Supplemental Material

**SUPPLEMENTARY TABLE S1.** List of primer sequences used for gene expression analysis in Real-time quantitative Polymerase Chain Reaction (RT-qPCR) assays.

Primer name	Primer Sequence (5'→3')	Size (bp)	Gene	Reference	Accession Number/ Gene ID*
PAL.For	TGCGACTGGTGAAAAGGTG	180	Phenylalanine ammonia- lyase (PAL)	Saigne-Soulard <i>et al.</i> , 2015	X75967
PAL.Rev	CGTTCCAAGCACTGAGACAA				
STS.For	GTGGGGCTCACCTTTCATT	180	Stilbene synthase (STS)	Saigne-Soulard <i>et al.</i> , 2015	AF274281
STS.Rev	CTGGGTGAGCAATCCAAAAT				
CHIT1α.For	TTTTGTCCACTCTGCTATGGTG	184	Chitinase (CHIT1α)	Saigne-Soulard <i>et al.</i> , 2015	AJ291505
CHIT1α.Rev	CACAGAAAGATTTGGATGCTCA				
CHIT3.For	ATAAGTTCATGGGCACTGCTCT	180	Chitinase (CHIT3)	Saigne-Soulard <i>et al.</i> , 2015	AJ291507
CHIT3.Rev	AGGTTAGTGGTGTTGCCAGAAG				
CHIT4C.For	GGCGACGAATCCATTTATGTT	180	Chitinase (CHIT4C)	Saigne-Soulard <i>et al.</i> , 2015	AY137377
CHIT4C.Rev	CGGAACAAGGGTTTCATAATTC				
PGIP.For	ACGGAACCTTGTTCCAGTTTGAT	180	Polygalacturonase- inhibiting protein (PGIP)	Saigne-Soulard <i>et al.</i> , 2015	AF305093
PGIP.Rev	CGATTGTAACCTCACGTTTCAGGA				
PIN.For	GCAGAAACCATTAAGAGGGAGA	185	Serine protease inhibitor (PIN)	Saigne-Soulard <i>et al.</i> , 2015	AY156047
PIN.Rev	TCTATCCGATGGTAGGGACACT				
ACT.For	TCAGCACTTCCAGCAGATG	180	Actin (ACT)	Saigne-Soulard <i>et al.</i> , 2015	TC30205
ACT.Rev	TAGGGCAGGGCTTCTTTCT				
GST.For	GAGAAGGCAGTGAAGGAAGC	190	Glutathione-S-transferase 25 (GSTU7)	Lovato <i>et al.</i> , 2019	VIT_16s0039g01070
GST.Rev	CCACCCAACCACACATCAAG				
TIFY.For	GGACGGAAGCACCAA GAC	180	Jasmonate ZIM domain-containing protein 10 (VviJAZ2)	Lovato <i>et al.</i> , 2019	VIT_01s0146g00480
TIFY.Rev	CAATGACTTCCTTCGTGCC				
AUX22D.For	GGGGATTGGATGCTGGTG	180	Auxin-induced protein 22D (AUX22D)	Lovato <i>et al.</i> , 2019	VIT_14s0030g02310
AUX22D.Rev	ATCCCCATTTTGGAGCAGC				
Bcboa6.For	GGTGAAGTTGAAGTGCCGA	180	Polyketide synthase (Bcboa6)	Lovato <i>et al.</i> , 2019	Bcin01g00060
Bcboa6.Rev	GACCCCGAATCTGCCTGC				
Bcbot2.For	GGCGATACCAGCACTTGAAC	184	Sesquiterpene synthase (Bcbot2)	Lovato <i>et al.</i> , 2019	Bcin12g06390
Bcbot2.Rev	CTGGGTGTTTGGTTTCTCTG				
BctubA.For	TGAGAAAACGACGGGCTGG	180	β-tubulin (BctubA)	Mamarabadi <i>et al.</i> , 2008	Bcin01g08040
BctubA.Rev	CCTCAATACCACTCGCTCC				

\*Accession numbers of sequences submitted to the National Center for Biotechnology Information (NCBI) and gene IDs of sequences submitted in the Universal Protein Resource (UniProt).

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**SUPPLEMENTARY TABLE S2.** GC–MS-based metabolite profiling of grape berries of one resistant (cv. “Limnio”) and one susceptible (cv. “Roditis”) cultivar 0, 24 and 36 h post-inoculation with *Botrytis cinerea*. Quantities of the metabolites detected are expressed as relative abundances compared to the internal standard adonitol. Values are means of five replicates; different letters indicate significant differences between treatments (Duncan's multiple range test;  $p < 0.05$ ).

	Limnio			Roditis		
	0 hpi	24 hpi	36 hpi	0 hpi	24 hpi	36 hpi
<b>Sugars</b>						
Fucose	0.135b	0.114b	0.131b	0.183a	0.193a	0.193a
Ribose	0.205a	0.196a	0.207a	0.187a	0.186a	0.175a
6-Deoxy-mannose	0.069a	0.071a	0.070a	0.087a	0.074a	0.082a
Xylose	0.060b	0.073ab	0.095a	0.056b	0.092a	0.068ab
Arabinose	0.054b	0.058ab	0.066ab	0.072ab	0.083ab	0.088a
Rahmnose	0.063c	0.075bc	0.070bc	0.084ab	0.094a	0.089a
Fructose	445.961bc	430.859c	534.413a	505.175ab	536.608a	516.139a
Talose	30.147ab	26.768b	29.501b	32.936ab	38.453a	38.314a
Sorbose	3.294ab	1.629b	3.158ab	2.639b	4.587a	2.230b
Sedoheptulose	7.120a	7.569a	10.139a	8.173a	10.441a	12.644a
Glucose	330.766b	374.828ab	427.948a	416.278a	439.268a	415.392a
Threose	1.407c	1.735bc	1.737bc	2.137abc	2.701a	2.298ab
3- $\alpha$ -Mannobiose	2.186a	2.039ab	1.375b	1.139b	1.627ab	0.876c
Maltose	nd*	nd	nd	8.132b	9.192a	8.108b
Galactose	0.174b	0.170b	0.149ab	0.218a	0.218a	0.165ab
Sucrose	90.884c	89.622c	99.987bc	104.678b	119.967a	107.278b
<b>Sugar alcohols</b>						
Glycerol	0.412ab	0.459a	0.382ab	0.222b	0.217b	0.234b
Erythritol	0.898cd	1.086b	1.447a	0.958c	0.792d	0.859cd
5-Deoxy-d-ribitol	1.007b	0.853c	1.403a	0.040d	0.042d	0.044d
Xylitol	0.036c	0.0409bc	0.037c	0.046bc	0.053ab	0.061a
Ribitol	0.169c	0.234b	0.178c	0.519a	0.525a	0.535a
Mannitol	nd	nd	1.555a	0.434b	nd	0.133b
Myo-inositol	12.983bc	12.133c	13.721bc	14.159b	16.143a	15.061ab
<b>Organic acids</b>						
Lactic	0.130b	0.196ab	0.306a	0.153ab	0.202ab	0.195ab
Glyceric	0.0476b	0.0838a	0.086a	0.0797a	0.0761a	0.104a
Mallic	27.793d	34.925b	39.052a	31.016c	30.858c	29.622cd
2-Deoxy-ribonic	0.337b	0.416b	0.668a	0.442b	0.455b	0.308b
Erythronic	0.194b	0.208a	0.234a	0.135c	0.134c	0.131c
Threonic	0.073b	0.098b	0.110 b	0.181a	0.173a	0.178a
Glutaric	0.664a	0.616b	0.694a	0.013c	nd	0.008c
Tartaric	29.399b	28.917b	32.351ab	31.043ab	33.163a	33.533a
Ribonic	0.290a	0.298a	0.277a	0.280a	0.284a	0.281a
Gluconic	8.390a	9.337a	9.002a	2.772b	3.541b	2.600b

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	Limnio			Roditis		
	0 hpi	24 hpi	36 hpi	0 hpi	24 hpi	36 hpi
Galactaric	0.399a	0.389a	0.358a	0.178b	0.139b	0.158b
<b>Amino acids</b>						
Alanine	0.172c	0.234c	0.227c	0.835a	0.506b	0.581b
Valline	0.163b	0.214a	0.179ab	0.095c	0.090c	0.119c
Threonine	0.050b	0.072b	0.052b	0.177a	0.181a	0.199a
Proline	1.604b	2.448a	2.443a	0.436c	0.411c	0.456c
Glycine	0.048a	0.062a	0.059a	0.044a	0.041a	0.050a
Serine	0.052b	0.073b	0.062b	0.409a	0.278a	0.383a
Aspartic	0.008c	0.010c	0.0169bc	0.044ab	0.053a	0.045ab
Oxo-proline	0.089c	0.138c	0.164bc	0.238ab	0.245ab	0.311a
$\gamma$ -Aminobutanic	1.234a	1.348a	1.33a	0.981a	1.110a	0.971a
Glutamic	0.030a	0.016b	0.017b	0.009b	0.007b	nd
$\beta$ -Alanine	0.033b	0.044a	0.044a	nd	0.024c	0.013d
<b>Other metabolites</b>						
Propanediol	0.03b	0.032ab	0.049a	0.045ab	0.037ab	0.04ab
Ethanolamine	1.077d	1.322c	1.309c	1.828a	1.294c	1.539b
Phosphoric acid	1.689b	2.361a	2.226a	1.057c	0.832d	1.005cd
Ethyl-D-glucopyranoside	3.995ab	4.295a	3.743b	0.833c	1.112c	0.859c
Gluconic acid $\gamma$ -lactone	0.062a	0.059a	0.054a	0.038a	0.054a	0.052a

\* not detectable

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