

Brief Report

First Insights into the Effect of Mycorrhizae on the Expression of Pathogen Effectors during the Infection of Grapevine with *Plasmopara viticola*

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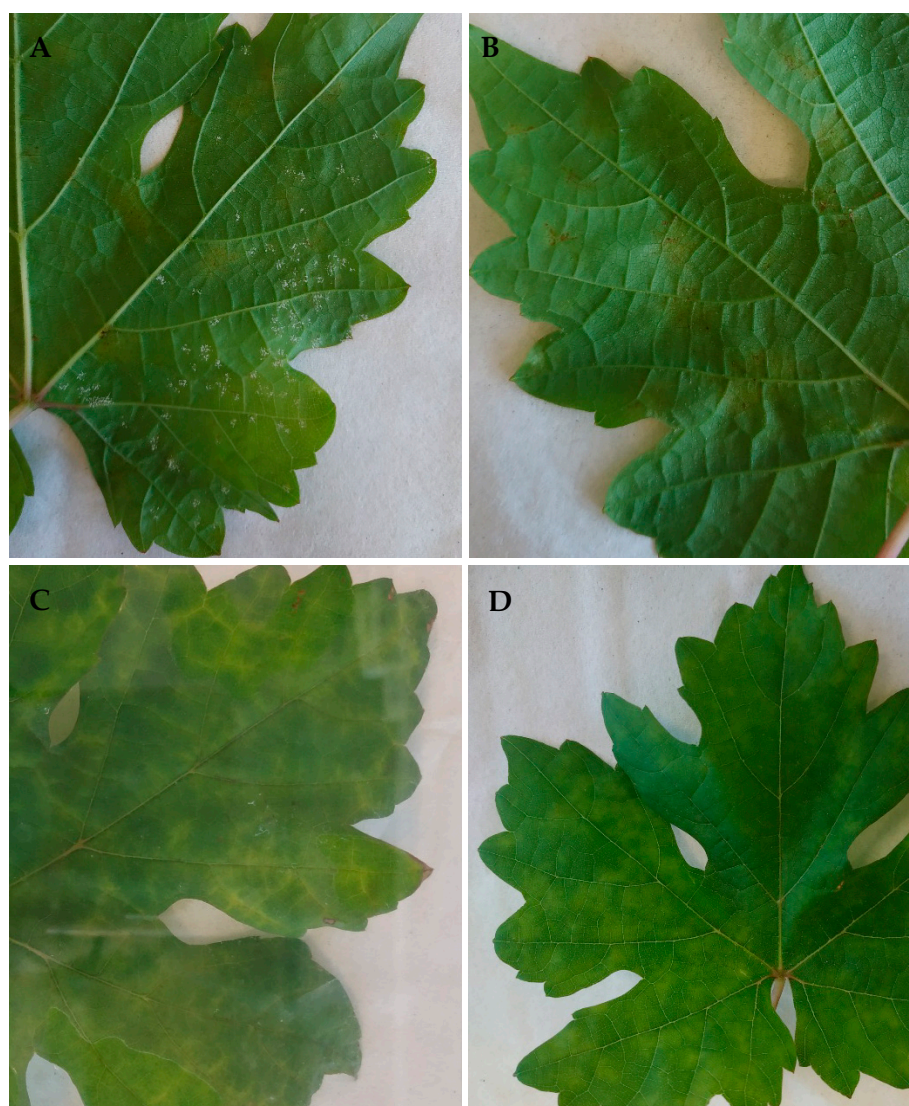
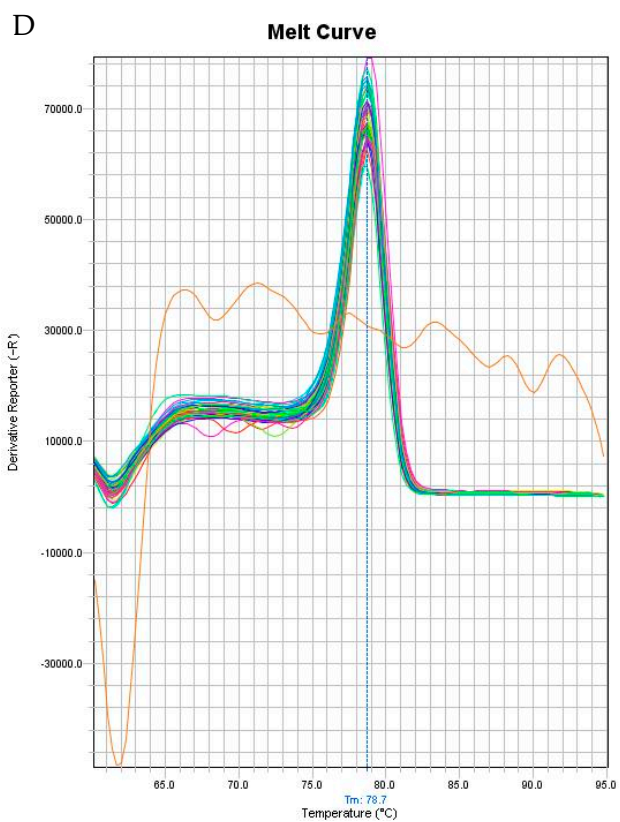
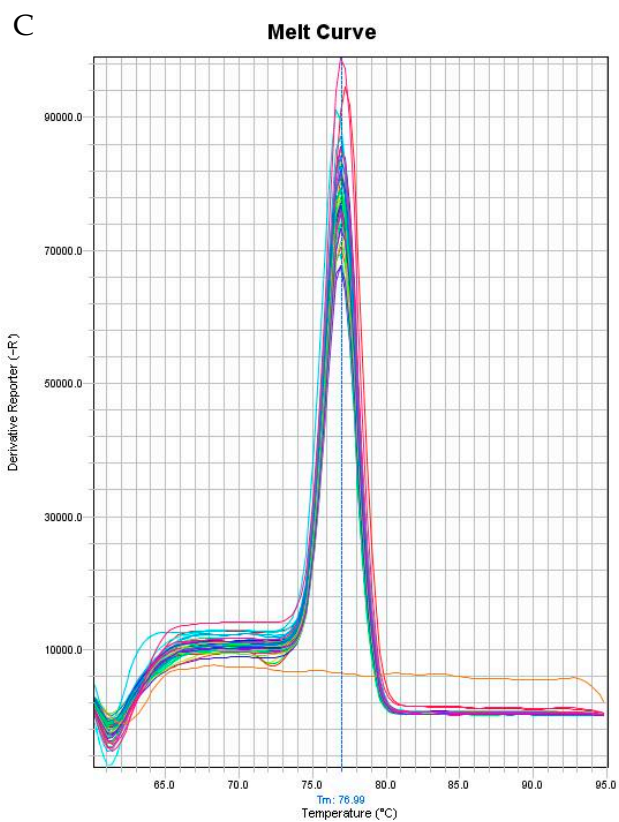
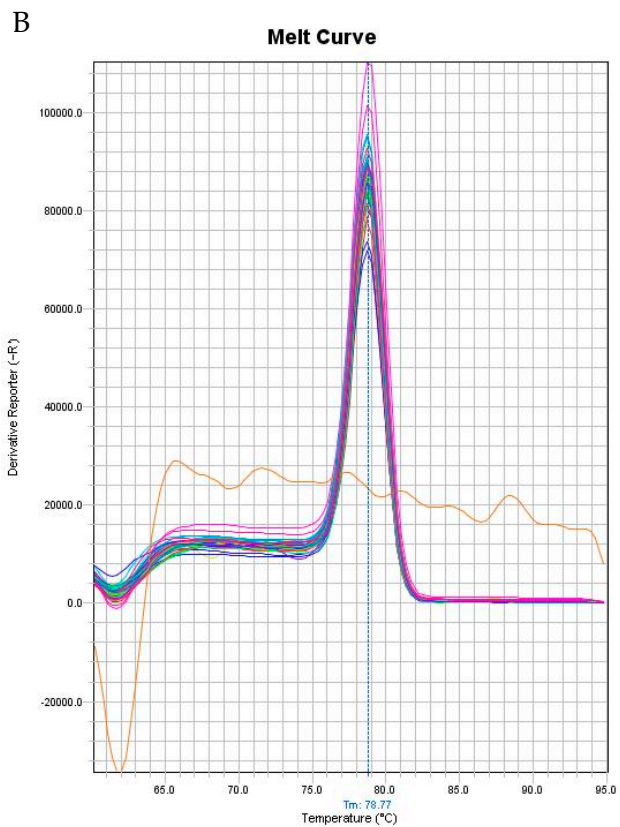
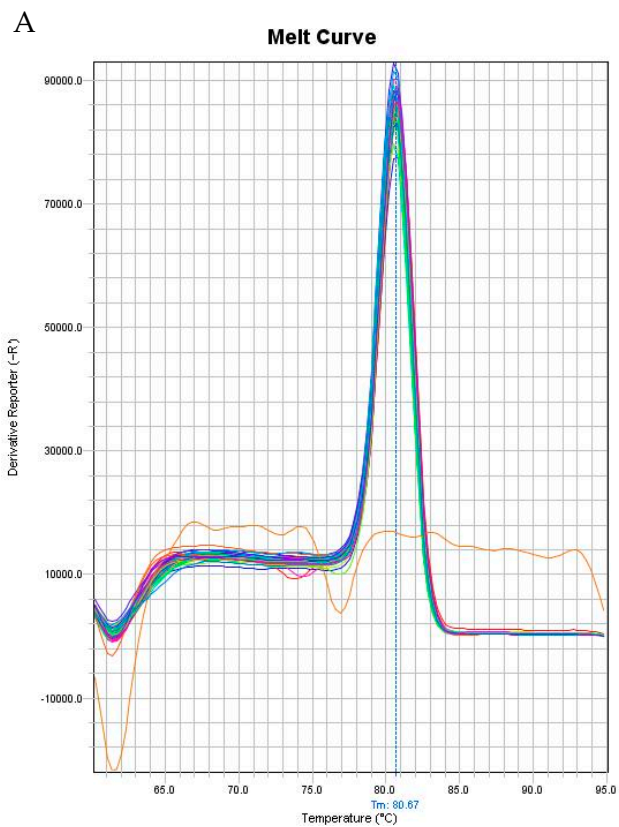


Figure S1. Symptoms of *P. viticola* infection on grapevine leaves. (A) Sporulation observed in the abaxial side of leaves. (B) Small points of necrosis in the abaxial side. (C–D) Occurrence of “oil spot”. Photos credit: Maia, M.



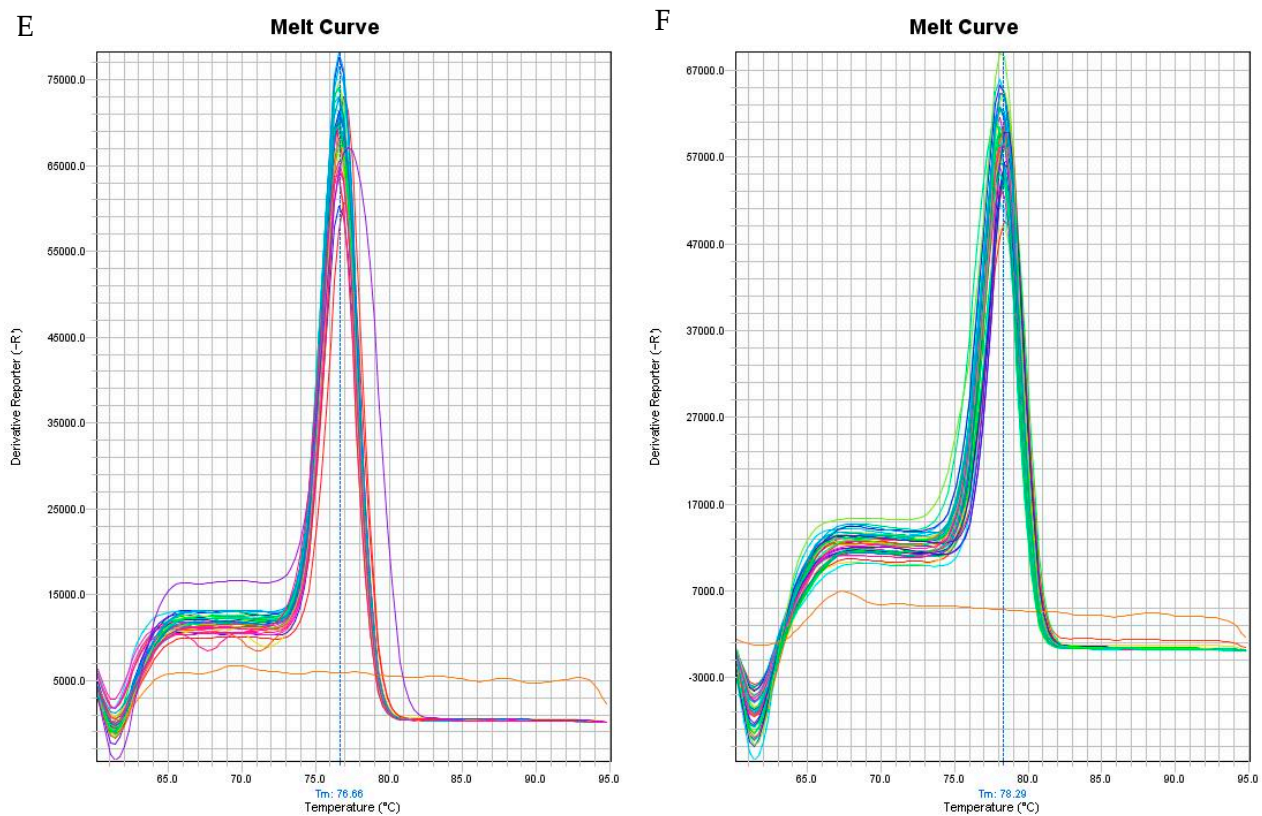


Figure S2. Melting curves of target genes and housekeeping genes. (A) *Actin*; (B) β -*Tubulin*; (C) *PvRxLR18*; (D) *PvRxLR28*; (E) *PvRxLR67*; (F) *PvAVH52*.

Table S1. Genes, primers and amplification data for the qPCR analysis.

Species	Gene Name NCBI Acc	Primer sequence 5'–3'	Amplicon (bp)	Ta (°C)	AE (%)	Tm (°C)
<i>Plasmopara viticola</i>	<i>PvRxLR16</i> KX010952.1	Fw: TGGCTACGGGTGGTGAGA Rv: GCCTTTGCATCCTTTGACA	121	58		LTA
	<i>PvRxLR18</i> HE582030.1	Fw: CTCGGTGAAAAAGTTGTTGCT Rv: CGCTCGCGCTGTCTGAAT	124	58	101.9	76.99
	<i>PvRxLR22</i> KX010955.1	Fw: TTGAGCGATGAGTATGAGGAG Rv: CGCTAGCCGTTTATCTTGCT	74	58		NA
	<i>PvRxLR27</i> KX010957.1	Fw: AAAGAGTTTGACCAGACACCA Rv: GGACTTTGACAGCCATTTT	93	58		LTA
	<i>PvRxLR28</i> KX010958.1	Fw: AACGTGGACGAAGATAAGGGA Rv: AATTTCAAAGGGTGGGATAC	109	60	103.5	78.70
	<i>PvRxLR61</i> KX010963.1	Fw: CGGCAAGACGTCCAACATT Rv: GCTTCCGCGACAAACCTG	108	58		NA
	<i>PvRxLR67</i> KX010967.1	Fw: TGCACCAAGAATCCAAGAAGT Rv: ATGCGGCGCTCAAACAATG	90	60	101.2	76.66
	<i>PvAVH52</i> MN328425.1	Fw: AGGCCCTGTTGTGGATTTTGA Rv: TCTCTTGCGGATACTGGTGAA	106	60	93.1	78.29
	<i>Actin</i> HE582092.1	Fw: CTCACGTACATTGCCTTGGA Rv: AATACCTGACGCTTCTTTACC	177	60	99.9	80.67
	<i>β-tubulin</i> HE582072.1	Fw: GAGCACGAAGGAGGTTGA Rv: CGTGGTGCTCATTTTCAGG	136	60	91.9	78.77
	<i>Vitis vinifera</i>	<i>EF1α</i> XM_002284888.2	Fw: GAACTGGGTGCTTGATAGGC Rv: ACCAAAATATCCGGAGTAAAAGA	164	60	

Ta, annealing temperature; AE, amplification efficiency; Tm, Melting temperature; NA, no amplification; LTA, low transcript abundance.