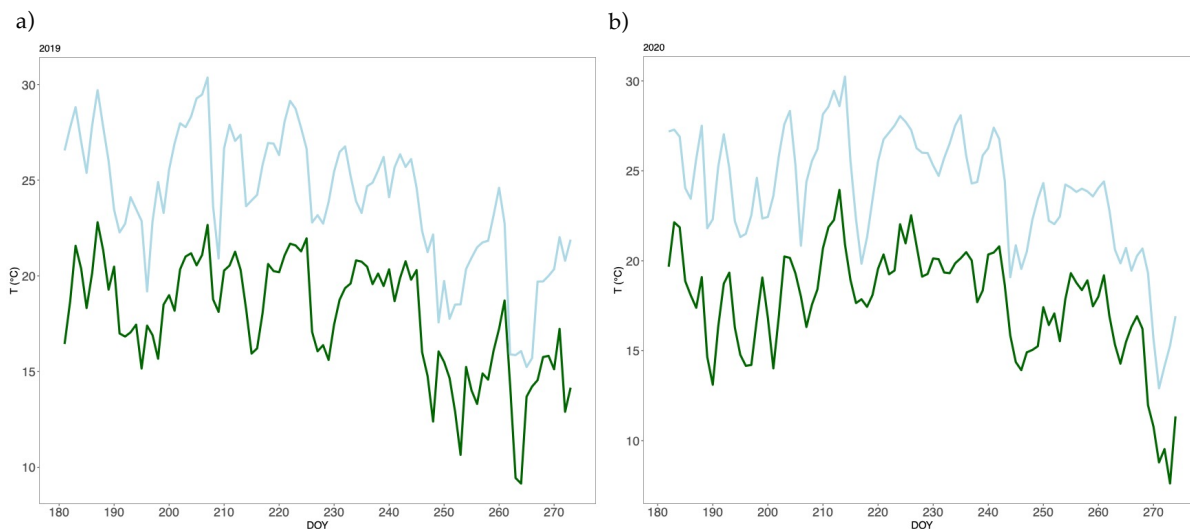


## SUPPLEMENTARY DATA



**Figure S1.** Daily minimum (green) and mean (light blue) air temperature (°C) from grape véraison to harvest in 2019 (a) and 2020 (b).

**Table S1.** Quantified microorganism and primer sequences used in this work.

Target	Primer Forward	Primer Reverse	Final Primer Concentration	Reference
Total fungi	ITS1 TCCGTAGGTGAACCTGCGG	ITS2 GCTGCGTTCTTCATCGATGC	0.05 µM	(41)
<i>Metschnikowia pulcherrima</i>	MP-5fw CAACGCCCTCATCCAGA	MP-3bw AGTGTCTGCTTGCAAGCC		(42)
<i>Hanseniospora uvarum</i>	HU-5fw GGCGAGGGATACCTTTTCTCTG	HU-3bw GAGGCGAGTGCATGCAA		
Typical phyllospheric bacteria	335f CADACTCCTACGGGAGGC	769r ATCCTGTTTGMTMCCCVCRC	0.1 µM	(23)
Lactic acid bacteria	WLAB1 TCCGGATTTA TTGGGCGTAAAGCGA	WLAB2 TCGAATTAACC ACATGCTCCA	0.05 µM	(43)

SUPPLEMENTARY DATA

Sangiorgio, D., Valentini, G., Pastore, C., Allegro, G., Gottardi, D., Patrignani, F., ... Filippetti, I. (2024). A comprehensive study on the effect of foliar mineral treatments on grapevine epiphytic microorganisms, flavonoid gene expression, and berry composition: The article has been pre-selected for publishing within the works presented at the II ICGWS conference held in Logroño in November 2023. *OENO One*, 58(3). <https://doi.org/10.20870/oeno-one.2024.58.3.7973>

**Table S2. Effect of treatment, year and their interaction inspected by two-ways ANOVA analysis on the levels of sugar content, acidity, anthocyanin concentration, and microbial colonization of grape berries. Values highlighted in bold indicate significant differences ( $p \leq 0.05$ ).**

<i>Variable</i>	<i>Trt</i>	<i>Year</i>	<i>Trt:Year</i>
Sugar content	0.645	<b>3.36e-05</b>	0.884
Acidity	0.95454	<b>0.00097</b>	0.93170
Anthocyanins Concentration	<b>0.0258</b>	<b>5.33e-05</b>	0.8355
Total Fungi	0.359540	<b>0.000459</b>	0.747458
<i>M. pulcherrima</i>	0.6197	0.7785	<b>0.0437</b>
<i>H. uvarum</i>	0.809	0.256	0.336
Phyllospheric Bacteria	0.841	0.622	0.692
Total Lactic Acid Bacteria	0.593	0.179	0.504