

Supplemental Material

Supplementary Table 1. Berry sampling at VineyardFACE for the three years.

Cabernet-Sauvignon	Green	25 % <i>véraison</i>	50 % <i>véraison</i>	75 % <i>véraison</i>	harvest
2021	10.08	25.08	09.09	21.09	22.10
DOY 2021	222	237	252	264	295
2020	04.08	14.08	28.08	25.09	12.10
DOY 2020	217	227	241	269	286
2019	31.07	28.08	10.09	24.09	14.10
DOY 2019	212	240	253	267	287

Supplementary Table 2. Must total acidity two-way ANOVA statistical test result.

Total acidity	Stage 1	Stage 2	Stage 3	Stage 4
Year	*	*	*	*
Treatment	n.s.	n.s.	n.s.	n.s.
YearxTreatment	n.s.	n.s.	n.s.	n.s.

Supplementary Table 3. Must brix content two-way ANOVA statistical test result.

Brix	Stage 1	Stage 2	Stage 3	Stage 4
Year	**	*	*	*
Treatment	n.s.	n.s.	n.s.	n.s.
YearxTreatment	n.s.	n.s.	n.s.	n.s.

Supplementary Table 4. Berry volume two-way ANOVA statistical test result.

Berry volume	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Year	n.s.	n.s.	n.s.	n.s.	n.s.
Treatment	n.s.	*	n.s.	n.s.	n.s.
YearxTreatment	n.s.	n.s.	n.s.	n.s.	n.s.

Supplementary Table 5. Berry weight two-way ANOVA statistical test result.

Berry weight	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Year	n.s.	n.s.	n.s.	n.s.	n.s.
Treatment	n.s.	**	n.s.	n.s.	n.s.
YearxTreatment	n.s.	n.s.	n.s.	n.s.	n.s.

Supplementary Table 6. Berry sugar content two-way ANOVA statistical test result.

Total sugars	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Year	**	*	*	***	n.s.
Treatment	n.s.	n.s.	n.s.	*	n.s.
YearxTreatment	n.s.	n.s.	n.s.	n.s.	n.s.
Glucose	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Year	**	*	*	**	n.s.
Treatment	n.s.	n.s.	n.s.	n.s.	n.s.
YearxTreatment	n.s.	n.s.	n.s.	n.s.	n.s.
Fructose	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Year	n.s.	*	**	**	n.s.
Treatment	n.s.	n.s.	n.s.	*	n.s.
YearxTreatment	n.s.	n.s.	n.s.	n.s.	n.s.

Supplementary Table 7. Berry organic acid content two-way ANOVA statistical test result.

Malic acid	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Year	n.s.	*	***	n.s.	n.s.
Treatment	n.s.	n.s.	n.s.	n.s.	n.s.
YearxTreatment	n.s.	n.s.	n.s.	n.s.	n.s.
Tartaric acid	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Year	n.s.	*	***	n.s.	**
Treatment	n.s.	n.s.	n.s.	n.s.	n.s.
YearxTreatment	n.s.	n.s.	n.s.	n.s.	n.s.

SUPPLEMENTARY DATA

Kahn, C., Tittmann, S., Hilbert, G., Renaud, C., Gomès, E., & Stoll, M. (2022). VineyardFACE: Investigation of a moderate (+20 %) increase of ambient CO₂ concentration on berry ripening dynamics and fruit composition of Cabernet-Sauvignon. *OENO One*, 56(3). <https://doi.org/10.20870/oeno-one.2022.56.3.5440>

Supplementary Table 8: Total amino-acid content two-way ANOVA statistical test result.

Total AA	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Year	*	*	n.s.	n.s.	n.s.
Treatment	n.s.	n.s.	n.s.	n.s.	n.s.
YearxTreatment	n.s.	n.s.	n.s.	n.s.	n.s.

Supplementary Table 9. Berry anthocyanin content two-way ANOVA statistical test result, stage 1 was omitted since there is no anthocyanins at green stage.

Anthocyanins	Stage 2	Stage 3	Stage 4	Stage 5
Year	*	**	***	*
Treatment	***	n.s.	*	n.s.
Year x Treatment	n.s.	n.s.	n.s.	n.s.