

## Supplementary Material:

# Responses on must and wine composition of *Vitis vinifera* L. cvs. Riesling and Cabernet Sauvignon under a Free Air CO<sub>2</sub> Enrichment (FACE)

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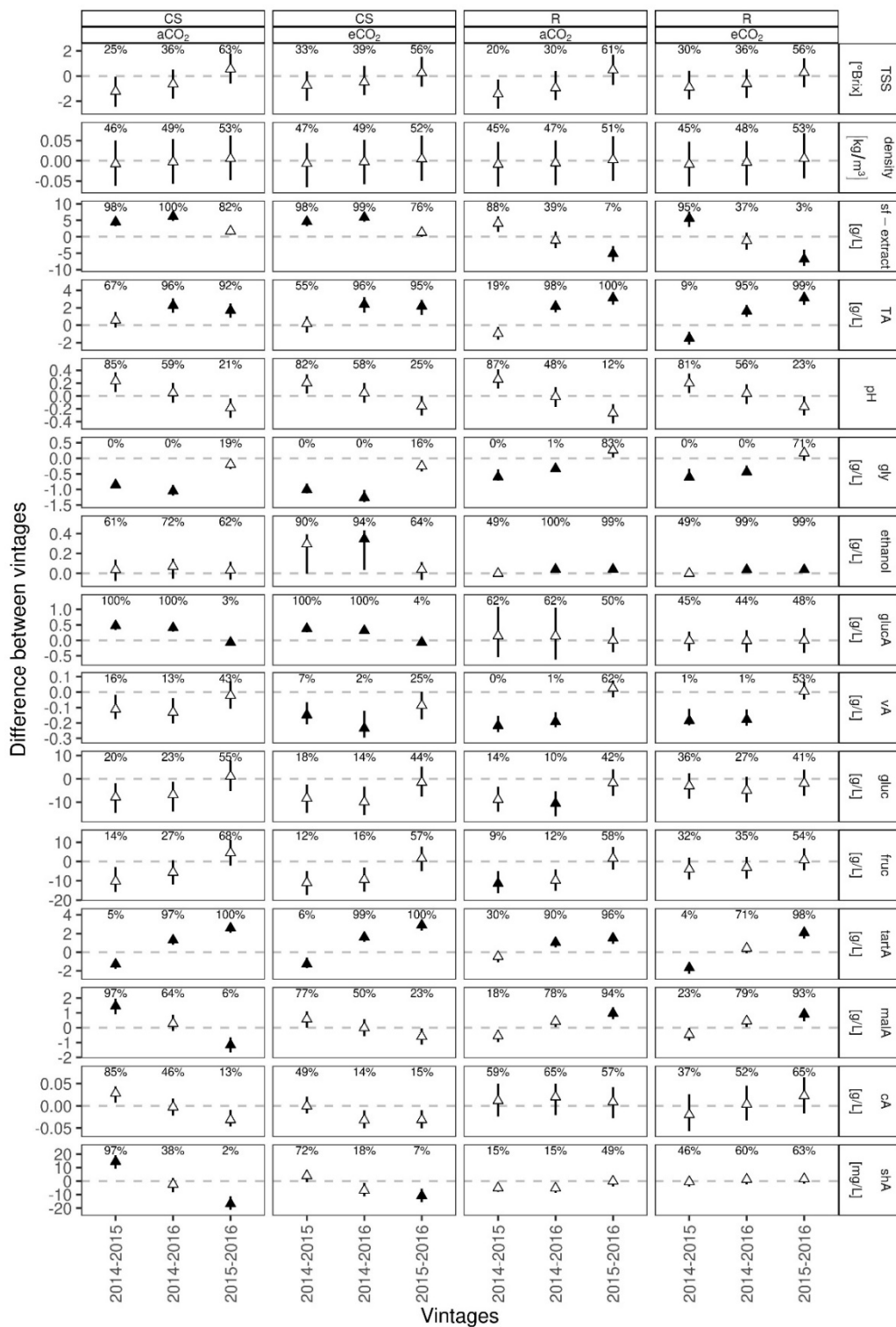
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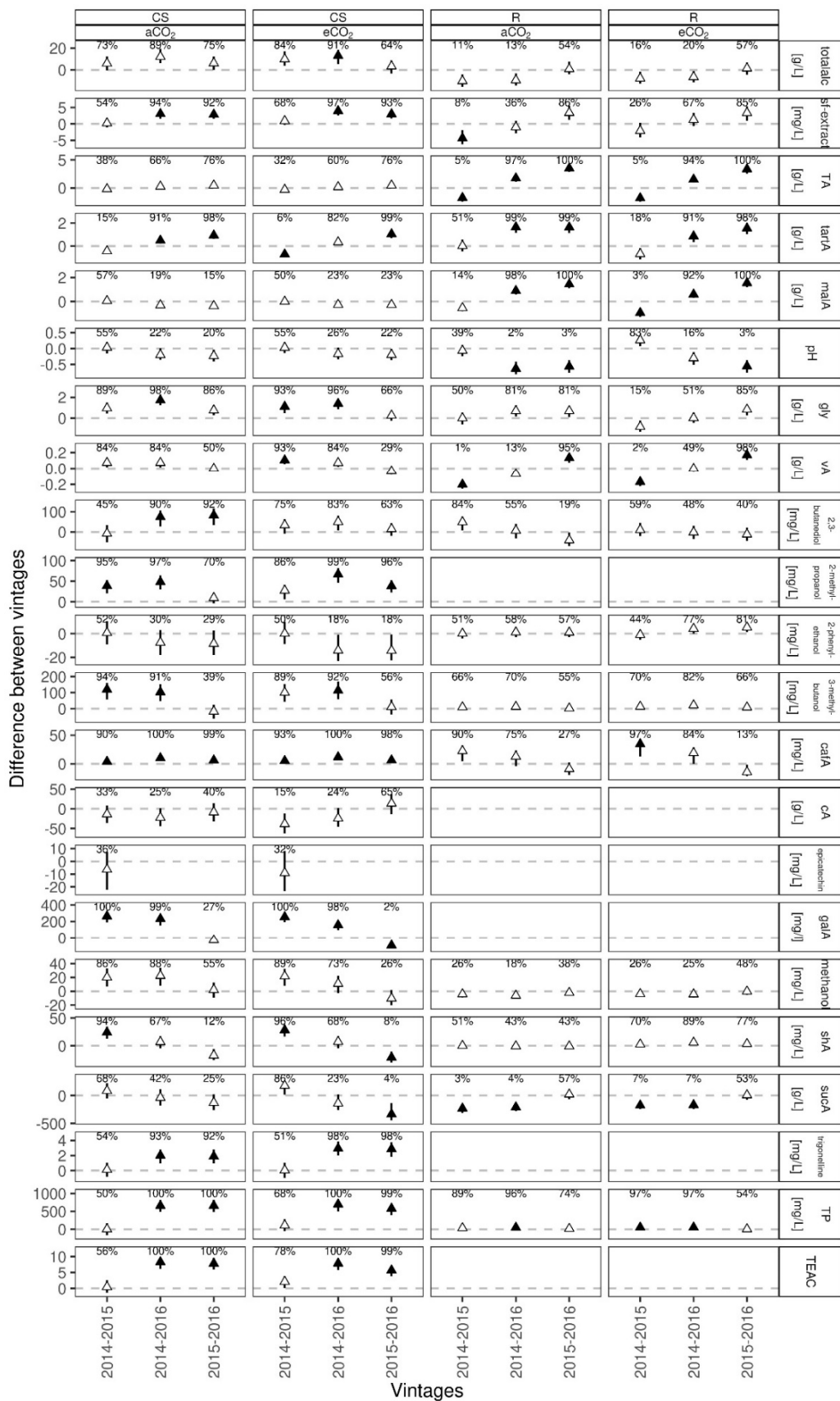
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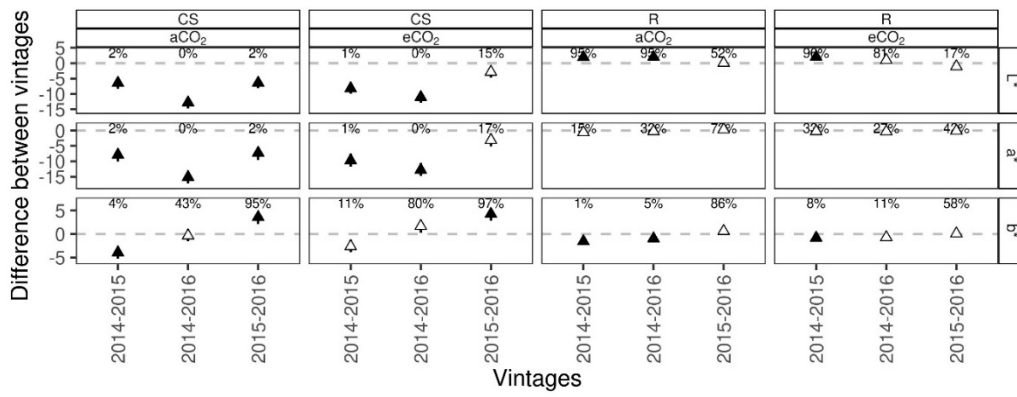
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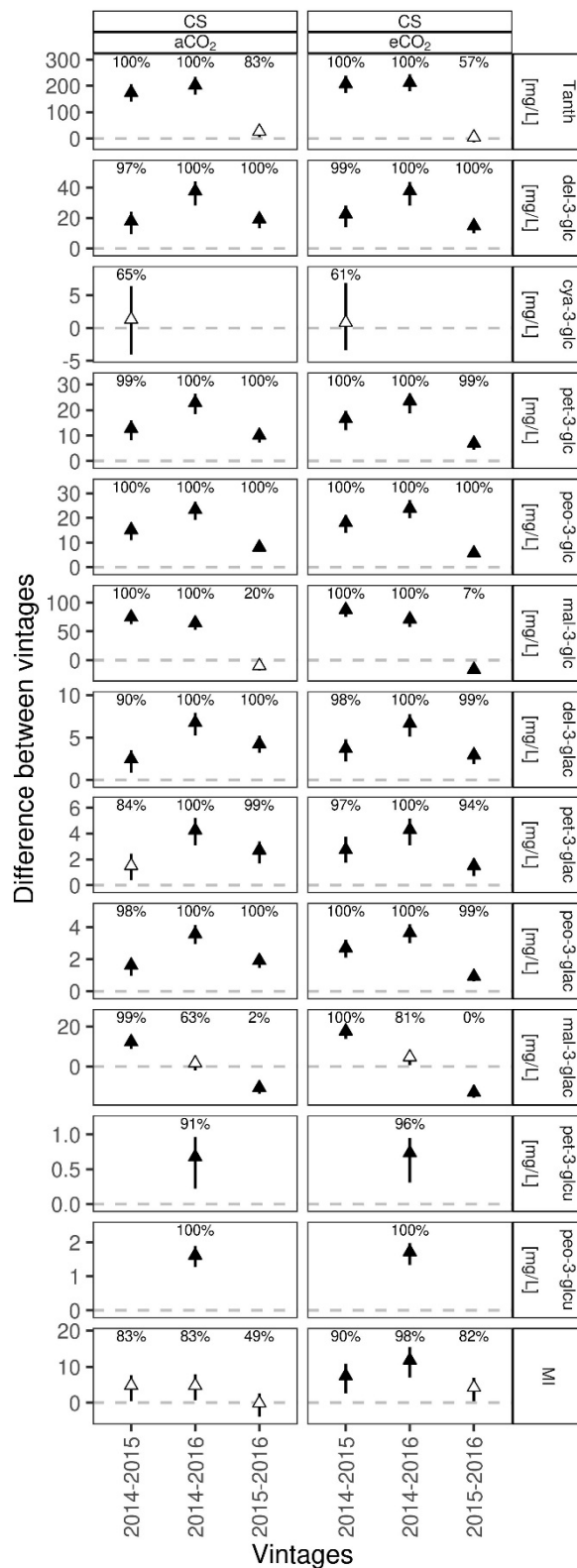
**Figure S1.** Posterior predicted difference (median and 50% HDI) between vintages within treatment ( $eCO_2$  and  $aCO_2$ ) from Bayesian generalized linear mixed effects models on analyzed must parameters of Cabernet Sauvignon (CS) and Riesling (R). Percentages represent the probability of  $Vintage1 - Vintage2 > 0$ . Filled symbols indicate “significant differences”, if the probability is  $>90\%$  (positive difference) or  $<10\%$  (negative difference).



**Figure S2.** Posterior predicted difference (median and 50% HDI) between vintages within treatment (eCO<sub>2</sub> and aCO<sub>2</sub>) from Bayesian generalized linear mixed effects models on analyzed wine parameters of Cabernet Sauvignon (CS) and Riesling (R). Percentages represent the probability of Vintage1-Vintage2 > 0. Filled symbols indicate “significant differences”, if the probability is >90% (positive difference) or <10% (negative difference).



**Figure S3.** Posterior predicted difference (median and 50% HDI) between vintages within treatment (eCO<sub>2</sub> and aCO<sub>2</sub>) from Bayesian generalized linear mixed effects models on L\*, A\* and b\* calculations of Cabernet Sauvignon (CS) and Riesling (R). Percentages represent the probability of Vintage1-Vintage2 > 0. Filled symbols indicate “significant differences”, if the probability is >90% (positive difference) or <10% (negative difference).



**Figure S4.** Posterior predicted difference (median and 50% HDI) between vintages within treatment (eCO<sub>2</sub> and aCO<sub>2</sub>) from Bayesian generalized linear mixed effects models on anthocyanins and monomeric index of Cabernet Sauvignon (CS). Percentages represent the probability of Vintage1-Vintage2 > 0. Filled symbols indicate “significant differences”, if the probability is >90% (positive difference) or <10% (negative difference).