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**Bunch microclimate affects carotenoids evolution in
cv. Nebbiolo (*V. vinifera* L.)**

This is the author's manuscript

Original Citation:

Availability:

This version is available <http://hdl.handle.net/2318/1742795> since 2020-07-01T19:05:54Z

Published version:

DOI:10.3390/app10113846

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Supplementary Table 1. Results of the 3-way ANOVA, carried out on the carotenoid content ($\mu\text{g berry}^{-1}$) and concentration (mg kg^{-1}) of the South facing vineyard considering the two levels of vigour (V+ and V-), the two seasons and the four sampling dates as factors of variability.

| | | Year (Y) | Vigour (V) | Sampling date (d) | Y * V | Y * d | V * d | Y*V*d |
|--|---------------------------|----------|------------|-------------------|-------|-------|-------|-------|
| mg kg⁻¹ | lutein | * | *** | *** | ns | *** | ns | ns |
| | β -carotene | ns | *** | *** | ns | *** | ns | ns |
| | neoxanthine | ns | *** | *** | ns | *** | * | ns |
| | Sum of carotenoids | ns | *** | *** | ns | *** | ns | ns |
| $\mu\text{g berry}^{-1}$ | lutein | *** | *** | *** | ns | * | * | ns |
| | β -carotene | ns | *** | *** | ns | ns | ns | ns |
| | neoxanthine | ns | *** | *** | ns | *** | * | ns |
| | Sum of carotenoids | * | *** | *** | ns | *** | ns | ns |
| | Lutein: β -carotene | *** | ns | *** | ns | *** | *** | ns |