Table S1: Individual phenolic compounds identified in grape skins and the resulting wines as influenced by the radiation received by grapes. Grapes received only ambient solar UV-B radiation (C, controls) or were artificially supplemented with UV-B radiation before harvest (H) or both in veraison and before harvest (VH). The individual compounds have been grouped in five groups: phenolic acids, stilbenes, flavonols, flavanols, and anthocyanins. Values (means ± standard errors, *n* = 3) are expressed in mg g-1 DM in grapes and in mg L-1 in wines. For each variable, the statistical significance of a one-way ANOVA is shown. Values of *p* are highlighted in bold when significant (*p* ≤ 0.05) for either grape skins or wines.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **GRAPE SKINS** | | | | **WINES** | | | |
|  | **C** | **H** | **VH** | ***p* value** | **C** | **H** | **VH** | ***p* value** |
| **Phenolic acids** |  |  |  |  |  |  |  |  |
| Caffeic acid ethyl ester |  |  |  |  | 0.84 ± 0.06 | 0.87 ± 0.14 | 0.60 ± 0.03 | 0.152 |
| Caffeoyl tartaric acid | 1.40 ± 0.02 | 1.61 ± 0.05 | 1.77 ± 0.04 | **0.002** | 11.2 ± 1.1 | 13.1 ± 2.4 | 11.9 ± 1.0 | 0.702 |
| Coumaroyl tartaric acid | 0.64 ± 0.02 | 0.74 ± 0.03 | 0.86 ± 0.02 | **0.003** | 33.9 ± 4.0 | 46.3 ± 6.5 | 36.8 ± 3.0 | 0.231 |
| **Stilbenes** |  |  |  |  |  |  |  |  |
| Resveratrol | 0.02 ± 0.00 | 0.04 ± 0.01 | 0.02 ± 0.00 | 0.065 | 0.74 ± 0.05 | 0.68 ± 0.07 | 0.33 ± 0.06 | **0.006** |
| Resveratrol-3-*O*-glucoside |  |  |  |  | 3.53 ± 0.27 | 3.53 ± 0.45 | 1.94 ± 0.16 | **0.018** |
| **Flavonols** |  |  |  |  |  |  |  |  |
| Isorhamnetin |  |  |  |  | 0.88 ± 0.05 | 0.66 ± 0.04 | 0.60 ± 0.04 | **0.010** |
| Isorhamnetin-3-*O*-glucoside | 0.01 ± 0.00 | 0.01 ± 0.00 | 0.01 ± 0.00 | **0.023** |  |  |  |  |
| Isorhamnetin-3-*O*-glucuronide | 0.01 ± 0.00 | 0.01 ± 0.00 | 0.01 ± 0.00 | **0.016** |  |  |  |  |
| Kaempferol-3-*O*-glucoside | 0.22 ± 0.01 | 0.24 ± 0.02 | 0.34 ± 0.01 | **0.002** | 0.86 ± 0.05 | 0.91 ± 0.13 | 1.45 ± 0.20 | **0.048** |
| Kaempferol-3-*O*-glucuronide | 0.06 ± 0.01 | 0.06 ± 0.01 | 0.09 ± 0.00 | **0.019** | 0.29 ± 0.02 | 0.48 ± 0.04 | 0.42 ± 0.04 | **0.022** |
| Laricitrin-3-*O*-glucoside |  |  |  |  | 1.96 ± 0.11 | 2.44 ± 0.27 | 1.92 ± 0.14 | 0.159 |
| Myricetin | 0.03 ± 0.00 | 0.04 ± 0.00 | 0.05 ± 0.01 | 0.052 |  |  |  |  |
| Myricetin-3-*O*-galactoside | 0.27 ± 0.01 | 0.30 ± 0.04 | 0.42 ± 0.03 | **0.029** |  |  |  |  |
| Myricetin-3-*O*-glucoside | 0.66 ± 0.01 | 0.78 ± 0.07 | 1.03 ± 0.18 | 0.122 | 9.27 ± 0.60 | 11.7 ± 1.7 | 9.77 ± 1.05 | 0.360 |
| Myricetin-3-*O*-glucuronide | 0.05 ± 0.00 | 0.06 ± 0.01 | 0.08 ± 0.01 | 0.088 | 1.87 ± 0.12 | 2.48 ± 0.28 | 2.04 ± 0.20 | 0.185 |
| Quercetin | 0.01 ± 0.00 | 0.00 ± 0.00 | 0.01 ± 0.00 | **0.006** | 3.91 ± 0.19 | 6.72 ± 1.04 | 5.17 ± 0.73 | 0.095 |
| Quercetin-3-*O*-galactoside | 0.09 ± 0.01 | 0.09 ± 0.01 | 0.14 ± 0.01 | **0.001** | 1.02 ± 0.03 | 1.69 ± 0.21 | 1.36 ± 0.15 | 0.051 |
| Quercetin-3-*O*-glucoside | 0.69 ± 0.05 | 0.82 ± 0.09 | 1.02 ± 0.08 | 0.053 | 3.74 ± 0.15 | 5.29 ± 0.59 | 5.56 ± 0.54 | 0.070 |
| Quercetin-3-*O*-glucuronide | 0.69 ± 0.02 | 0.77 ± 0.09 | 1.08 ± 0.10 | **0.030** | 6.20 ± 0.22 | 8.33 ± 0.94 | 7.79 ± 0.70 | 0.155 |
| Quercetin-3-*O*-rutinoside | 0.05 ± 0.00 | 0.04 ± 0.00 | 0.08 ± 0.01 | **0.012** |  |  |  |  |
| Syringetin-3-*O*-glucoside | 0.01 ± 0.00 | 0.01 ± 0.00 | 0.01 ± 0.00 | 0.121 | 1.91 ± 0.09 | 1.47 ± 0.15 | 1.26 ± 0.06 | **0.015** |
| **Flavanols** |  |  |  |  |  |  |  |  |
| Catechin | 0.23 ± 0.01 | 0.31 ± 0.02 | 0.34 ± 0.04 | 0.064 | 6.72 ± 0.55 | 7.28 ± 1.02 | 5.86 ± 0.73 | 0.483 |
| Catechin gallate | 0.30 ± 0.01 | 0.35 ± 0.03 | 0.37 ± 0.01 | **0.036** | 6.13 ± 0.67 | 6.88 ± 1.00 | 6.11 ± 0.86 | 0.775 |
| Epicatechin | 0.05 ± 0.00 | 0.07 ± 0.00 | 0.07 ± 0.00 | **0.008** | 8.22 ± 0.69 | 6.30 ± 0.77 | 5.97 ± 0.79 | 0.152 |
| Epigallocatechin | 0.09 ± 0.01 | 0.12 ± 0.01 | 0.14 ± 0.00 | **0.003** | 1.45 ± 0.16 | 1.63 ± 0.29 | 1.43 ± 0.24 | 0.813 |
| Procyanidin B1 | 0.20 ± 0.02 | 0.22 ± 0.01 | 0.30 ± 0.04 | 0.061 | 20.6 ± 1.6 | 21.3 ± 2.8 | 18.4 ± 1.7 | 0.641 |
| Procyanidin B2 | 0.01 ± 0.00 | 0.02 ± 0.00 | 0.01 ± 0.00 | **0.005** | 3.17 ± 0.15 | 2.52 ± 0.27 | 2.44 ± 0.31 | 0.163 |
| Procyanidin B3 |  |  |  |  | 6.31 ± 0.50 | 5.19 ± 0.61 | 5.12 ± 0.65 | 0.342 |
| **Anthocyanins** |  |  |  |  |  |  |  |  |
| Cyanidin-3-*O*-glucoside | 1.84 ± 0.18 | 1.63 ± 0.20 | 1.62 ± 0.18 | 0.671 | 0.53 ± 0.08 | 1.56 ± 0.13 | 1.06 ± 0.08 | **0.004** |
| Cyanidin-3-*O*-(6'-acetyl)glucoside | 0.13 ± 0.02 | 0.12 ± 0.01 | 0.17 ± 0.03 | 0.265 | 0.27 ± 0.04 | 0.57 ± 0.03 | 0.56 ± 0.06 | **0.012** |
| Cyanidin-3-*O*-(6'-*p*-coumaroyl)glucoside | 1.26 ± 0.11 | 1.06 ± 0.13 | 1.18 ± 0.17 | 0.633 | 0.55 ± 0.10 | 1.22 ± 0.19 | 1.22 ± 0.06 | **0.024** |
| Delphinidin-3-*O*-glucoside | 8.35 ± 0.52 | 7.01 ± 0.97 | 9.21 ± 1.25 | 0.332 | 8.52 ± 1.06 | 26.0 ± 1.7 | 22.6 ± 1.3 | **0.001** |
| Delphinidin-3-*O*-(6'-acetyl)glucoside | 0.29 ± 0.03 | 0.29 ± 0.04 | 0.38 ± 0.01 | 0.126 | 1.06 ± 0.13 | 2.74 ± 0.18 | 2.58 ± 0.20 | **0.003** |
| Delphinidin-3-*O*-(6'-*p*-coumaroyl)glucoside | 1.04 ± 0.05 | 0.88 ± 0.12 | 1.17 ± 0.15 | 0.277 | 2.22 ± 0.28 | 6.07 ± 0.85 | 5.66 ± 0.48 | **0.009** |
| Malvidin-3-*O*-glucoside | 9.29 ± 0.34 | 8.00 ± 0.84 | 10.1 ± 0.8 | 0.179 | 517 ± 91 | 512 ± 37 | 850 ± 7 | **0.033** |
| Malvidin-3-*O*-(6'-acetyl)glucoside | 1.60 ± 0.14 | 1.37 ± 0.13 | 1.84 ± 0.18 | 0.168 | 13.3 ± 1.9 | 14.9 ± 1.9 | 32.6 ± 1.4 | **0.000** |
| Malvidin-3-*O*-(6'-*p*-coumaroyl)glucoside | 3.42 ± 0.16 | 2.93 ± 0.28 | 3.76 ± 0.30 | 0.152 | 59.3 ± 11.3 | 97.7 ± 13.1 | 146 ± 7 | **0.024** |
| Peonidin-3-*O*-glucoside | 1.42 ± 0.11 | 1.23 ± 0.15 | 1.27 ± 0.09 | 0.539 | 9.09 ± 1.28 | 8.88 ± 3.66 | 10.5 ± 0.9 | 0.845 |
| Peonidin-3-*O*-(6'-acetyl)glucoside | 0.23 ± 0.02 | 0.22 ± 0.02 | 0.25 ± 0.01 | 0.274 | 1.39 ± 0.23 | 2.75 ± 0.23 | 2.43 ± 0.24 | **0.030** |
| Peonidin-3-*O*-(6'-*p*-coumaroyl)glucoside | 0.80 ± 0.04 | 0.69 ± 0.06 | 0.80 ± 0.08 | 0.397 | 1.91 ± 0.36 | 3.80 ± 0.57 | 3.75 ± 0.14 | **0.039** |
| Petunidin-3-*O*-glucoside | 2.57 ± 0.11 | 2.23 ± 0.25 | 2.81 ± 0.32 | 0.309 | 67.8 ± 11.7 | 80.9 ± 6.6 | 132 ± 2 | **0.013** |
| Petunidin-3-*O*-(6'-acetyl)glucoside | 0.64 ± 0.04 | 0.59 ± 0.08 | 0.87 ± 0.01 | **0.015** | 2.15 ± 0.37 | 5.55 ± 0.99 | 5.76 ± 0.14 | **0.014** |
| Petunidin-3-*O*-(6'-*p*-coumaroyl)glucoside | 1.16 ± 0.02 | 0.97 ± 0.12 | 1.24 ± 0.15 | 0.265 | 3.34 ± 0.46 | 9.10 ± 1.22 | 9.10 ± 0.27 | **0.005** |