

Supplementary Table 3: The Pearson's product correlation coefficient was calculated in order to disclose significant relationships between principal componentes and the variables analyzed considering all data set for Tempranillo cv. at full maturation stage

Correlation coefficients related to Figure 7A								
	Axis1	p- value	Axis2	p- value	Axis3	p- value	Axis4	p- value
Spredawn	-0.81	0.000	-0.37	ns	-0.21	ns	-0.35	ns
NHH	-0.67	0.000	-0.33	ns	-0.21	ns	-0.42	0.041
Delphinidin-3-O-Glc	0.90	0.000	-0.10	ns	0.33	ns	-0.20	ns
Cyanidin-3-O-Glc	0.62	0.001	-0.38	ns	0.26	ns	-0.59	0.002
Petunidin-3-OGlc	0.96	0.000	0.04	ns	0.18	ns	-0.18	ns
Peonidin3-O-Glc	0.93	0.000	-0.03	ns	-0.14	ns	-0.17	ns
Malvidin-3-O-Glc	0.97	0.000	0.17	ns	-0.09	ns	-0.10	ns
Delphinidin-3-O-acetateGlc	0.97	0.000	-0.14	ns	0.12	ns	-0.03	ns
Peonidin3O-acetylGlc	0.96	0.000	0.08	ns	-0.21	ns	-0.08	ns
Malvidin-3-O-acetylGlc	0.98	0.000	0.01	ns	-0.01	ns	0.02	ns
Delphinidin-3-O-(6''-O-coumaroyl)Glc	-0.77	0.000	0.14	ns	0.58	0.003	0.11	ns
Cyanidin-3-O-(6''-O-coumaroyl)Glc	0.99	0.000	0.00	ns	-0.11	ns	-0.04	ns
Petunidin-3-O-(6''-O-coumaroyl)Glc	-0.83	0.000	0.21	ns	0.45	0.028	0.06	ns
Peonidin-3-O-(6''-O-coumaroyl)Glc	0.92	0.000	0.14	ns	-0.30	ns	-0.10	ns
ABA	0.60	0.002	-0.34	ns	0.66	0.000	0.03	ns
ABA-GE	-0.06	ns	0.71	0.000	0.51	0.010	-0.17	ns
DPA	-0.70	0.000	-0.33	ns	0.17	ns	-0.27	ns
PA	-0.83	0.000	-0.23	ns	0.11	ns	-0.22	ns
Caftaric acid	0.52	0.010	0.44	0.030	-0.06	ns	0.04	ns
Coutaric acid	0.49	0.015	0.19	ns	0.41	0.044	0.06	ns
Rutin and QuercetinGlc	0.67	0.000	-0.60	0.002	0.15	ns	0.34	ns
Myricetin	0.41	0.046	-0.73	0.000	0.40	ns	0.24	ns
Degradation products	0.28	ns	-0.73	0.000	-0.53	0.007	0.03	ns

Correlation coefficients related to Figure 7B								
	Axis1	p- value	Axis2	p- value	Axis3	p- value	Axis4	p- value
Spredawn	0.75	0.005	0.64	0.025	0.07	ns	0.08	ns
NHH	0.78	0.003	0.43	ns	-0.38	ns	0.10	ns
AEBT	0.38	ns	-0.81	0.001	0.23	ns	-0.36	ns
Delphinidin-3-O-Glc	-0.39	ns	0.91	0.000	-0.07	ns	0.07	ns
Cyanidin-3-O-Glc	0.28	ns	0.95	0.000	-0.03	ns	0.14	ns
Petunidin-3-OGlc	-0.57	ns	0.81	0.001	-0.06	ns	0.11	ns
Peonidin3-O-Glc	-0.30	ns	0.94	0.000	0.11	ns	0.13	ns
Malvidin-3-O-Glc	-0.91	0.000	0.39	ns	0.05	ns	0.06	ns
Delphinidin-3-O-acetateGlc	-0.69	0.012	0.59	0.044	0.23	ns	-0.31	ns
Peonidin-3-O-acetylGlc	0.60	0.038	0.46	ns	-0.48	ns	-0.07	ns
Malvidin-3-O-acetylGlc	-0.99	0.000	-0.09	ns	-0.01	ns	-0.09	ns
Delphinidin-3-O-(6''-O-coumaroyl)Glc	-0.96	0.000	-0.03	ns	0.01	ns	-0.26	ns
Cyanidin-3-O-(6''-O-coumaroyl)Glc	0.34	ns	0.86	0.000	-0.13	ns	-0.30	ns
Petunidin-3-O-(6''-O-coumaroyl)Glc	-0.98	0.000	0.03	ns	-0.13	ns	-0.16	ns
Peonidin-3-O-(6''-O-coumaroyl)Glc	-0.25	ns	0.67	0.017	-0.11	ns	-0.63	0.030
Malvidin-3-O-(6''-O-coumaroyl)Glc	-0.78	0.003	-0.03	ns	-0.45	ns	-0.33	ns
Peonidin-3-O-(6''-O-coumaroyl)Glc + Malvidin-3-O-(6''-O-coumaroyl)Glc	-0.99	0.000	-0.01	ns	-0.08	ns	0.00	ns
ABA	-0.54	ns	0.38	ns	0.53	ns	0.34	ns
ABA-GE	-0.84	0.001	0.23	ns	-0.30	ns	0.24	ns
DPA	0.37	ns	0.39	ns	0.60	0.039	-0.50	ns
PA	0.54	ns	0.25	ns	0.70	0.011	-0.29	ns
Caftaric acid	-0.72	0.008	-0.53	ns	0.23	ns	-0.35	ns
Gallic acid deriv	0.52	ns	0.84	0.001	0.01	ns	0.13	ns
Coutaric acid	-0.96	0.000	-0.06	ns	-0.03	ns	-0.19	ns
Rutin and QuercetinGlc	0.73	0.007	-0.29	ns	-0.36	ns	-0.42	ns
Myricetin	0.40	ns	0.56	ns	-0.59	0.042	-0.35	ns
Degradation products	0.92	0.000	0.09	ns	0.31	ns	-0.12	ns

Correlation coefficients related to Figure 7C								
	Axis1	p- value	Axis2	p- value	Axis3	p- value	Axis4	p- value
Spredawn	0.84	0.001	0.49	ns	-0.18	ns	0.00	ns
NHH	0.40	ns	0.07	ns	-0.80	0.002	-0.35	ns
AEBT	-0.54	ns	0.84	0.001	0.08	ns	0.02	ns
Delphinidin-3-O-Glc	-0.95	0.000	-0.12	ns	0.03	ns	0.21	ns
Cyanidin-3-O-Glc	-0.97	0.000	-0.02	ns	-0.04	ns	0.07	ns
Petunidin-3-OGlc	-0.90	0.000	-0.40	ns	0.07	ns	0.11	ns

Peonidin-3-O-Glc	-0.21	ns	-0.25	ns	-0.74	0.006	0.52	ns
Malvidin-3-O-Glc	-0.40	ns	-0.90	0.000	0.04	ns	0.09	ns
Delphinidin-3-O-acetateGlc	-0.91	0.000	0.06	ns	-0.24	ns	0.05	ns
Malvidin-3-O-acetylGlc	-0.20	ns	-0.86	0.000	-0.35	ns	-0.28	ns
Delphinidin-3-O-(6''-O-coumaroyl)Glc	-0.78	0.003	-0.18	ns	0.11	ns	-0.34	ns
Cyanidin-3-O-(6''-O-coumaroyl)Glc	-0.95	0.000	-0.03	ns	-0.02	ns	0.27	ns
Petunidin-3-O-(6''-O-coumaroyl)Glc	-0.87	0.000	-0.48	ns	0.02	ns	-0.05	ns
Malvidin-3-O-(6''-O-coumaroyl)Glc	-0.34	ns	-0.24	ns	-0.57	ns	-0.33	ns
Peonidin-3-O-(6''-O-coumaroyl)Glc + Malvidin-3-O-(6''-O-coumaroyl)Glc	0.28	ns	-0.84	0.001	-0.44	ns	0.05	ns
ABA	-0.92	0.000	0.29	ns	-0.04	ns	-0.20	ns
ABA-GE	-0.20	ns	-0.95	0.000	0.10	ns	-0.06	ns
DPA	-0.70	0.012	0.43	ns	0.06	ns	-0.41	ns
PA	-0.88	0.000	-0.22	ns	0.05	ns	-0.29	ns
Caftaric acid	0.01	ns	-0.40	ns	0.39	ns	0.32	ns
Coutaric acid	-0.54	ns	-0.28	ns	0.00	ns	0.21	ns
Rutin and QuercetinGlc	-0.56	ns	0.80	0.002	0.12	ns	0.14	ns
Myricetin	-0.61	0.034	0.75	0.005	-0.13	ns	-0.03	ns
Degradation products	0.27	ns	0.85	0.000	-0.14	ns	0.36	ns

ns : non significant