

SUPPLEMENTARY DATA

Biget, M., Mony, C., Aubry, M., Jambon, O., Quaiser, A., Chable, V., Pernet, S., & Vandenkoornhuyse, P. (2021). The drivers of vine-plant root microbiota endosphere composition include both abiotic and plant-specific factors. *OENO One*, 55(3). <https://doi.org/10.20870/oeno-one.2021.55.3.4616>

TABLE S1. Abiotic and plant-specific variables and ranges of variation.

Environmental variables	Abiotic factors				Plant-specific factors		
	Field	% OM	C/N ratio	pH	P2O5 (g/kg)	Age	Cultivar
P103		1.85	11.69	7.73	0.075	15	Cabernet-Sauvignon
P106		1.34	10.82	6.63	0.098	13	Merlot
P108		2.22	12.18	6.3	0.066	7	Cabernet-Sauvignon
P10		3	11.7	7.1	0.163	49	Cabernet-Sauvignon
P10e		1.9	10.4	8.3	0.203	48	Cabernet-Sauvignon
P112a		2.11	6.32	7.97	0.097	7	Cabernet-Sauvignon
P16		2.07	9.19	7.8	0.545	25	Merlot
P18		3.9	12.4	6.5	0.133	43	Cabernet-Sauvignon
P19		1.52	8.66	6.75	0.251	33	Cabernet-Sauvignon
P23a		2.4	10.5	7.1	0.185	53	Merlot
P25		2.8	10.2	6.3	0.174	73	Cabernet-Sauvignon
P26		2.7	13.6	7.4	0.235	73	Merlot
P31		3.9	14.1	6.3	0.231	51	Cabernet-Sauvignon
P33		2.8	10.8	6.9	0.224	31	Merlot
P35		1.77	10.61	6.73	0.218	59	Merlot
P38		2.7	10.6	7.3	0.244	74	Merlot
P3a		2.4	12.9	7.5	0.18	35	Cabernet-Sauvignon
P42		1.86	11.38	7.84	0.354	39	Merlot
P44		1.4	12.7	6.7	0.155	6	Cabernet-Sauvignon
P47		0.67	12.17	7.87	0.133	10	Merlot
P4		1.31	16.56	7.14	0.143	36	Merlot

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P51	1.46	10.48	7.91	0.258	16	Cabernet-Sauvignon
P52a	1.5	12	7.6	0.156	30	Merlot
P56	1.32	9.25	7.33	0.111	52	Cabernet-Sauvignon
P57	1.21	8.48	7.43	0.144	32	Cabernet-Sauvignon
P62	1.24	9.49	7.19	0.126	4	Merlot
P63	1.29	7.21	8.1	0.106	44	Merlot
P64b	0.43	4.46	6.52	0.047	34	Merlot
P64c	0.97	9.25	6.27	0.048	44	Merlot
P68	1.25	8.97	6.04	0.235	39	Cabernet-Sauvignon
P69	1.29	11.03	7.01	0.127	29	Merlot
P6	2.2	11.2	6.8	0.228	45	Cabernet-Sauvignon
P84a	1.35	12.46	7.4	0.212	3	Merlot
P84b	1.73	12.27	7.84	0.173	3	Cabernet-Sauvignon
P11	2.6	11.3	7.3	0.168	80	Merlot
P58a	3.69	11.85	7.15	0.091	19	Cabernet-Sauvignon
P59b	1.6	9.12	6.63	0.104	26	Merlot
Mean (SD)	1.94 (0.84)	10.76 (2.21)	7.15 (0.59)	0.17 (0.09)	35 (21)	NA
Min	0.43	4.46	6.04	0.05	3	NA
Max	3.90	16.56	8.30	0.55	80	NA

Values of abiotic and plant-specific factors are detailed for each field as well as the mean, minimum and maximum of the values.

OM: organic matter, SD: standard deviation

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TABLE S2. Summary of the sequence-cluster richness and evenness indexes for (A) bacterial and (B) fungal communities.

(A) Bacteria	Alpha scale		Gamma scale		Evenness (Simpson)	Alpha scale		Gamma scale	
	Mean (SD)	Range	Mean (SD)	Range		Mean (SD)	Range	Means(SD)	Range
Richness	Mean (SD)	Range	Mean (SD)	Range	Evenness (Simpson)	Mean (SD)	Range	Means(SD)	Range
All bacteria	340.41 (54.27)	108-490	747.26 (72.26)	598-881	All bacteria	0.96 (0.04)	0.60-0.99	0.98 (0.01)	0.97-0.99
Proteobacteria	252.27 (41.98)	86-365	535.88 (51.48)	420-629	Proteobacteria	0.95 (0.05)	0.51-0.99	0.97 (0.01)	0.95-0.98
<i>Alphaproteobacteria</i>	154.7 (24.7)	61-211	308.62 (29.8)	252-359	<i>Alphaproteobacteria</i>	0.93 (0.05)	0.50-0.98	0.95 (0.01)	0.92-0.97
<i>Gammaproteobacteria</i>	67.3 (13.4)	24-104	152.74 (14.9)	108-177	<i>Gammaproteobacteria</i>	0.85 (0.09)	0.23-0.96	0.90 (0.04)	0.83-0.95
<i>Deltaproteobacteria</i>	30 (10)	1-53	73.88 (11.1)	55-92	<i>Deltaproteobacteria</i>	0.85 (0.11)	0-0.96	0.92 (0.04)	0.82-0.97
Bacteroidetes	50.3 (11.4)	13-82	120.32 (13.63)	93-144	Bacteroidetes	0.89 (0.08)	0.36-0.97	0.94 (0.02)	0.90-0.97
Actinobacteria	24.1 (6.9)	6-46	54.41 (8.52)	34-67	Actinobacteria	0.68 (0.16)	0.24-0.96	0.72 (0.12)	0.45-0.89
Acidobacteria	6.2 (3.7)	0-16	16.94 (5.3)	6-25	Acidobacteria	0.64 (0.23)	0-1	0.81 (0.11)	0.51-0.92
(B) Fungi									
Richness	Mean (SD)	Range	Mean (SD)	Range	Evenness (Simpson)	Mean (SD)	Range	Means(SD)	Range
All fungi	37.46 (9.1)	11-56	94.89 (11.36)	71-121	All fungi	0.59 (0.18)	0.06-0.87	0.68 (0.11)	0.30-0.82
Ascomycota	19.54 (5.14)	5-33	48.83 (6.50)	38-60	Ascomycota	0.42 (0.18)	0.01-0.80	0.48 (0.12)	0.16-0.70
Basidiomycota	9.31 (3.47)	0-19	23.22 (3.47)	16-30	Basidiomycota	0.55 (0.20)	0-1	0.71 (0.12)	0.34-0.85
Glomeromycota	5 (2.39)	0-14	12.92 (2.99)	8-18	Glomeromycota	0.38 (0.21)	0-1	0.43 (0.15)	0.10-0.68

The values are calculated for the “all bacteria” / “all fungi” communities and the associated phyla.

Mean, standard deviation (SD), and the range of the values (minimum-maximum) are shown for both the α - and γ -scale