SUPPLEMENTARY DATA
Mezzatesta, D., Oyuela Aguilar, M., Gobbi, A., Pistorio, M., Hansen, L. H., Buscema, F., … Berli, F. (2024). Soil-associated fungal and prokaryotic diversity influenced by stoniness, depth and vintage in a high-altitude vineyard. *OENO One*, *58*(4).
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Table S1. Soil chemical parameters for stony soil (SS) and non-stony soil (NS) across the years 2017 and 2018, measured at depths of 0.3 m and 0.6 m (n = 3). The Table includes only significant p-values for each variable and their interactions, as determined by Fisher's LSD test ($p < 0.05$).

		SS				NS				p value				
	Depth (m)	2017		2018		2017		2018		Soil	Vintage	Depth	Soil* Vintage	Soil* Depth
OM (%)	0.3	0.79	± 0.11	1.14	± 0.02	0.50	± 0.14	1.08	± 0.02	0.0024	<0.0001	ns	0.0245	ns
	0.6	0.89	± 0.07	1.13	± 0.03	0.54	± 0.07	1.07	± 0.02					
Total N (mg kg^{-1})	0.3	527.3	± 30.60	737.3	± 24.69	397.7	± 109.13	672.0	± 70.47	0.0265	<0.0001	ns	ns	ns
	0.6	532.0	± 48.50	765.3	± 40.68	436.0	± 64.13	653.3	± 24.69					
C/N ratio	0.3	8.61	± 0.41	9.00	± 0.11	7.21	± 0.05	9.51	± 0.50	0.0027	<0.0001	ns	<0.0001	ns
	0.6	9.72	± 0.26	8.59	± 0.18	7.20	± 0.05	9.54	± 0.14					
P (mg kg^{-1})	0.3	4.20	± 1.91	5.82	± 0.40	5.67	± 2.33	8.45	± 0.35	ns	ns	ns	ns	ns
	0.6	5.86	± 0.13	3.17	± 0.19	4.33	± 0.55	5.23	± 0.91					
K (mg kg^{-1})	0.3	229.0	± 28.88	196.7	± 26.03	289.3	± 64.72	210.0	± 20.82	ns	ns	0.0002	ns	ns
	0.6	170.3	± 8.84	130.0	± 10.00	118.7	± 14.19	116.7	± 14.53					
CO_3Ca (%)	0.3	0.96	± 0.29	1.04	± 0.36	0.26	± 0.02	0.29	± 0.05	<0.0001	ns	0.0005	ns	0.0002
	0.6	2.22	± 0.48	3.14	± 0.32	0.27	± 0.05	0.11	± 0.02					
pH	0.3	7.76	± 0.02	6.78	± 0.09	7.66	± 0.05	7.05	± 0.09	0.0223	<0.0001	ns	0.0118	ns
	0.6	7.64	± 0.03	6.85	± 0.09	7.71	± 0.06	7.10	± 0.07					
EC (dS m^{-1})	0.3	1.12	± 0.18	0.94	± 0.10	0.90	± 0.27	1.50	± 0.17	ns	ns	ns	ns	ns
	0.6	1.13	± 0.11	1.15	± 0.11	1.27	± 0.18	1.31	± 0.07					

OM: organic matter; EC: electrical conductivity.

Table S2. Summary of meteorological data. Average maximum (T max), mean (T mean) and minimum (T min) air temperatures, along with accumulated rainfall in the vineyard. Values are presented as means ± SEM for the period from September to March.

Vintage	T max (°C)	T mean (°C)	T min (°C)	Accumulated rainfall (mm)
2017	24.07 ± 0.42	16.80 ± 0.35	9.33 ± 0.31	289.5
2018	23.97 ± 0.39	16.39 ± 0.35	8.79 ± 0.35	189.5

Table S3. Statistical summary for the Canonical Correspondence Analysis (CCA) conducted using XLSTAT.

	Fungi		Prokaryotes	
Parameters	**Value**	**%**	**Value**	**%**
Total Inertia	0.125	100.0	0.418	100.0
Restricted Inertia	0.052	41.9	0.173	41.5
Not-restricted Inertia	0.073	58.1	0.245	58.5
Permutations	1000		1000	
Pseudo F	0.720		0.764	
P value	0.003		0.022	
Alfa	0.050		0.050	

Table S4. ANCOM I5 analysis results for sequence counts of fungal communities in SS and NS soils.

		SS	NS
ANCOM I 5 statistical results	**W**	**100**	**100**
k__Fungi;p__Ascomycota;__;__;__	228	9498	1587
k__Fungi;p__Glomeromycota;c__Glomeromycetes;o__Diversisporales;f__Diversisporaceae	222	268	217
k__Fungi;p__Basidiomycota;c__Agaricomycetes;o__Sebacinales;f__Serendipitaceae	215	323	1*
k__Fungi;p__Ascomycota;c__Leotiomycetes;o__Helotiales;f__unidentified	213	3834	1168
k__Fungi;p__Rozellomycota;c__Rozellomycotina_cls_Incertae_sedis;o__GS10;f__unidentified	211	138	3
k__Fungi;p__Basidiomycota;c__Agaricomycetes;o__Sebacinales;f__unidentified	207	523	508
k__Fungi;p__Ascomycota;c__Eurotiomycetes;o__Chaetothyriales;f__unidentified	206	662	163

*The numbers presented represents the counts of each taxon listed. The value of 1 should be interpreted as 0 as a pseudo-count was required to performed the ANCOM test.