

SUPPLEMENTARY DATA

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Supplementary data

TABLE S1. The reported parameter data were analyzed through two-way ANOVA.

Traits	Year	Clone	Clone x Year interaction
Soluble Solids (°Brix)	0.001	0.001	0.19
Titrateable acidity	0.18	0.003	0.16
Yield/plant	0.001	0.058	0.135
Average berry weight	0.054	0.022	0.55
Average cluster weight	0.001	0.001	0.052
Clusters/vine	0.001	0.082	0.060
Disease incidence	0.001	0.001	0.001
Disease severity	0.001	0.001	0.002
Ravaz index	0.25	0.001	0.99
Fertility bud	0.001	0.119	0.185
Pruning wood	0.001	0.001	0.93
Berry skin break force	0,029	0.001	0,061

For each column, p-values are reported.

TABLE S2. Grape quality and yield parameters of the 17 clones in 2019.

Clones	Soluble Solids (°Brix)	Total acidity (g/L)	SS/TA ratio	Cluster/ vine (n°)	Yield/vine (kg)	Average berry weight (g)	Average cluster weight (kg)
H1	19.6 a	7.1 a	2.8 a	52.4 abc	7.7 ab	1.34 a	0.12 a
VCR5	19.3 a	6.7 a	2.9 a	60.4 ab	8.3 ab	1.34 a	0.13 a
2-15 GM	20.5 a	6.8 a	3.0 a	33.7 de	5.9 ab	1.49 a	0.13 a
ERSA FVG151	19.4 a	7.1 a	2.7 a	53.0 abc	7.2 ab	1.47 a	0.12 a
F 13 CSG	19.4 a	7.2 a	2.7 a	45.0 bcd	6.2 ab	1.44 a	0.12 a
Isma Avit 513	19.3 a	6.9 a	2.8 a	55.2 abc	7.6 ab	1.38 a	0.10 a
ISV F1 Toppani	20.3 a	6.8 a	3.0 a	41.8 cde	6.9 ab	1.33 a	0.11 a
ENTAV 52	18.9 a	7.1 a	2.7 a	52.7 abc	7.9 ab	1.44 a	0.12 a
B 10	18.0 a	7.0 a	2.6 a	25.8 e	5.0 b	1.36 a	0.11 a
ENTAV 53	19.8 a	7.6 a	2.6 a	45.1 bcd	6.9 ab	1.35 a	0.13 a
R 6	19.0 a	7.2 a	2.6 a	55.0 abc	8.0 ab	1.37 a	0.12 a
ERSA FVG 152	19.7 a	7.6 a	2.6 a	50.4 abcd	6.8 ab	1.42 a	0.12 a
ENTAV 457	19.3 a	6.9 a	2.8 a	51.1 abc	8.2 ab	1.38 a	0.13 a
SMA514	19.7 a	6.8 a	2.9 a	46.0 bcd	7.8 ab	1.42 a	0.12 a
SMA505	18.5 a	7.1 a	2.6 a	40.1 cde	7.4 ab	1.41 a	0.13 a
FR49-207	19.0 a	7.2 a	2.7 a	46.5 bcd	8.2 ab	1.42 a	0.14 a
1 GM	18.8 a	7.1 a	2.6 a	62.1 a	8.9 a	1.40 a	0.13 a

Means of the clones with the same letter are not significantly different per $p > 0.05$ (Tukey test).

SS/TA = Soluble Solids/ Titrateable acidity

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TABLE S3. Grape quality and yield parameters of the 17 clones in 2020.

Clones	Soluble Solids (°Brix)	Total acidity (g/L)	SS/TA ratio	Cluster/vine (n°)	Yield/vine (kg)	Average berry weight (g)	Average cluster weight (kg)
H1	18.5 ab	6.1 d	3.1 a	41.7 a	7.0 a	1.29 cd	0.17 ab
VCR5	18.3 ab	6.8 abcd	2.7 abc	40.6 a	6.0 a	1.50 abcd	0.15 abcd
2-15 GM	18.1 abc	6.4 cd	2.8 abc	41.1 a	6.9 a	1.43 abcd	0.17 ab
ERSA FVG 151	19.1 a	7.0 abcd	2.7 abc	50.2 a	7.0 a	1.27 d	0.14 bcd
F 13 CSG	18.4 ab	7.5 ab	2.5 bcd	50.9 a	8.0 a	1.41 abcd	0.16 abc
Isma Avit 513	19 ab	7.3 ab	2.5 bcd	46.1 a	5.9 a	1.43 abcd	0.12 d
ISV F1 Toppani	18.9 a	6.9 abcd	2.8 abc	38.1 a	6.1 a	1.59 ab	0.16 abc
ENTAV 52	18.4 ab	6.3 cd	3.0 ab	42.1 a	6.7 a	1.44 abcd	0.16 abc
B 10	16.4 d	7.6 a	2.1 d	38.8 a	5.9 a	1.36 bcd	0.15 abcd
ENTAV 53	18.3 ab	6.6 bcd	2.8 abc	36.7 a	5.2 a	1.48 abcd	0.15 abcd
R6	18.3 ab	7.0 abcd	2.6 abc	36.5 a	5.8 a	1.53 abcd	0.16 abc
ERSA FVG 152	18.9 ab	7.0 abc	2.7 abc	39.6 a	6.1 a	1.64 a	0.13 cd
ENTAV 457	18.2 abc	6.7 abcd	2.7 abc	42.7 a	6.6 a	1.53 abc	0.16 abcd
SMA514	18.1 abc	7.1 abc	2.5 bcd	44.1 a	6.4 a	1.49 abcd	0.14 abcd
SMA505	18.0 abc	6.9 abcd	2.6 abcd	41.5 a	6.1 a	1.47 abcd	0.15 abcd
FR49-207	17.8 bc	6.9 abcd	2.6 bcd	42.9 a	6.9 a	1.47 abcd	0.16 abc
1-GM	17.1 cd	7.1 abc	2.4 cd	47.3 a	8.7 a	1.30 cd	0.18 a

Means of the clones with the same letter are not significantly different per $p > 0.05$ (Tukey test). SS/AT = Soluble Solids/ Titratable acidity.

TABLE S4. Grape quality and yield parameters of the 17 clones in 2021.

Clones	Soluble Solids (°Brix)	Total acidity (g/L)	SS/TA ratio	Cluster/vine (n)	Yield/vine (kg)	Average berry weight (g)	Average cluster weight (kg)
H1	19.9 ab	6.3 ab	3.2 ab	36.9 a	6.0 a	1.31 a	0.16 ab
VCR5	20.3 ab	6.8 ab	3.0 ab	37.1 a	5.7 a	1.42 a	0.15 ab
2-15 GM	19.7 ab	7.1 ab	2.8 ab	34.8 a	5.6 a	1.46 a	0.16 ab
ERSA FVG 151	21.7 a	7.5 a	2.9 ab	34.2 a	5.0 a	1.41 a	0.15 b
F 13 CSG	19.4 b	7.3 ab	2.7 b	40.2 a	5.8 a	1.42 a	0.14 b
Isma Avit 513	20.1 ab	7.3 ab	2.8 ab	38.0 a	5.2 a	1.40 a	0.14 b
ISV F1 Toppani	20.0 ab	7.0 ab	2.8 ab	39.8 a	6.2 a	1.43 a	0.16 ab
ENTAV 52	20.3 ab	6.1 b	3.4 a	35.9 a	5.2 a	1.44 a	0.14 b
B 10	17.0 c	6.5 ab	2.6 b	38.1 a	5.5 a	1.36 a	0.14 b
ENTAV 53	19.0 bc	6.4 ab	3.0 ab	39.7 a	6.2 a	1.41 a	0.16 ab
R 6	19.4 b	6.9 ab	2.8 ab	38.7 a	5.4 a	1.45 a	0.14 b
ERSA FVG 152	19.7 ab	7.2 ab	2.7 ab	34.3 a	5.5 a	1.53 a	0.16 ab
ENTAV 457	20.4 ab	7.5 a	2.7 b	31.8 a	5.2 a	1.45 a	0.15 b
SMA514	19.0 bc	7.0 ab	2.7 b	35.3 a	5.3 a	1.45 a	0.15 b
SMA505	19.7 ab	6.8 ab	2.9 ab	35.8 a	5.1 a	1.44 a	0.14 b
FR49-207	18.4 bc	6.7 ab	2.8 ab	28.8 a	5.5 a	1.45 a	0.190 a
1-GM	18.7 bc	6.9 ab	2.7 ab	33.7 a	5.6 a	1.35 a	0.16 b

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TABLE S4 A. Effect of vintages on production data, vigour, fertility and skin resistance.

Year	Yield/vine (kg)	Clusters/vine (n)	Fertility bud	Pruning wood (kg)	Average cluster weight (kg)	Berry skyn break force (N)
2019	7.3 a	48.0 a	1.23 a	0.67 a	0.123 b	0.69 b
2020	6.5 b	42.2 b	1.09 b	0.66 a	0.154 a	0.71 b
2021	5.5 c	36.1 c	0.93 c	0.54 b	0.155 a	0.74 a

Means of the clones with the same letter are not significantly different per $p > 0.05$ (Tukey test).

TABLE S5. The one-way analysis of variance showed statistically significant differences only for the average berry weight and the Ravaz index. Three years average.

Clones	Flavonoids (mg/kg grape)	Anthocyanins (mg/kg grape)	Average berry weight (g)	Clusters/vine (n°)	Ravaz Index
H1	461.8 a	53.2 a	1.31 b	44 ab	13.6 ab
VCR 5	556.0 a	64.9 a	1.42 ab	46 ab	9.6 cde
2-15 GM	609.7 a	60.6 a	1.46 ab	37 ab	13.4 ab
ERSA FVG 151	609.5 a	74.5 a	1.38 ab	46 ab	8.4 cde
F 13 CSG	570.1 a	53.3 a	1.42 ab	45 ab	10.3 bcd
Isma Avit 513	508.9 a	54.6 a	1.40 ab	46 ab	8.7 cde
ISV F1 Toppani	479.6 a	56.6 a	1.45 ab	40 ab	7.9 de
ENTAV 52	569.6 a	66.9 a	1.44 ab	43 ab	10.6 bcd
B 10	533.0 a	51.7 a	1.36 ab	34 b	11.6 bcd
ENTAV 53	512.8 a	53.0 a	1.41 ab	40 ab	13.7 ab
R 6	504.0 a	53.3 a	1.45 ab	43 ab	10.1 bcd
ERSA FVG 152	592.3 a	52.8 a	1.53 a	41 ab	6.2 e
ENTAV 457	652.1 a	62.6 a	1.45 ab	42 ab	11.4 bcd
SMA 514	564.7 a	65.2 a	1.45 ab	42 ab	13.6 ab
SMA 505	541.9 a	52.2 a	1.44 ab	39 ab	11.8 bc
FR 49-207	588.0 a	58.3 a	1.45 ab	39 ab	11.8 bc
1 GM	586.5 a	60.2 a	1.35 b	48 a	16.7 a

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TABLE S6. The predominant shape of the grape cluster among the 17 clones analysed was cylindrical (10/17). and all clusters had only one wing.

Clones	Wings	Shape
H1	1.0	C
VCR 5	1.0	C
2-15 GM	1.0	C
ERSA FVG 151	1.0	C
F 13 CSG	1.0	C
Isma Avit 513	1.0	CF
ISV F1 Toppani	1.0	C
ENTAV 52	1.0	F
B 10	1.0	C
ENTAV 53	1.0	C
R 6	1.0	C
ERSA FVG 152	1.0	CF
ENTAV 457	1.0	CF
SMA 514	1.4	CF
SMA 505	1.0	C
FR 49-207	1.0	F
1 GM	1.2	F

C = Cylindrical shape; F = Funnel shape; CF = grape clusters exhibiting both shapes.

TABLE S7. The value of the ratio between soluble solids (SS) and titratable acidity (TA) is always greater than or equal to the minimum value required by the production regulations. Three years average.

Clones	SS/TA
H1	3.0 a
VCR 5	2.8 ab
2-15 GM	2.9 ab
ERSA FVG 151	2.8 ab
F 13 CSG	2.6 bc
Isma Avit 513	2.7 abc
ISV F1 Toppani	2.9 ab
ENTAV 52	2.9 ab
B 10	2.5 c
ENTAV 53	2.8 abc
R 6	2.7 abc
ERSA FVG 152	2.7 abc
ENTAV 457	2.8 abc
SMA 514	2.7 abc
SMA 505	2.7 abc
FR 49-207	2.7 abc
1 GM	2.6 bc

Means of the clones with the same letter are not significantly different per $p > 0.05$ (Tukey test).

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TABLE S8. Severity and incidence of *Botrytis cinerea* and bunch rot for each individual year.

Clones	Disease severity (%)			Disease incidence (%)		
	2019	2020	2021	2019	2020	2021
H1	19.4 a	13.3 ab	13.5 a	37.1 a	30.6 ab	31.3 a
VCR 5	12.4 ab	13.7 ab	11.7 ab	24.6 abc	34.0 a	27.3 ab
2-15 GM	19.1 a	9.7 abc	10.6 ab	31.9 ab	19.3 bc	26.6 ab
ERSA FVG 151	10.9 ab	12.4 ab	12.6 a	20.8 abc	30.0 ab	27.3 ab
F 13 CSG	9.8 ab	14.8 a	8.6 ab	22.0 abc	33.3 a	20.6 abc
Isma Avit 513	10.5 ab	11.5 abc	9.5 ab	21.1 abc	24 ab	22.0 abc
ISV F1 Toppani	16.4 ab	8.4 abc	7.5 ab	29.7 abc	22.0 abc	19.3 abcd
ENTAV 52	18.6 a	6.8 bc	8.0 ab	32.5 ab	19.3 bc	18.0 abcd
B 10	10.1ab	12.6 ab	6.6 ab	19.9 bc	28.6 ab	19.3 abcd
ENTAV 53	10.4 ab	11.1 abc	6.8 ab	21.5 abc	30.0 ab	14.6 bcd
R 6	12.3 ab	10.4 abc	5.7 b	25.3 abc	26.0 ab	14.0 bcd
ERSA FVG 152	6.2 b	11.5 abc	7.5 ab	18.0 bc	28.0 ab	17.3 abcd
ENTAV 457	11.2 ab	8.0 abc	8.4 ab	25.5 abc	18.0 bc	23.0 abc
SMA 514	12.9 ab	9.1 abc	4.0 c	22.7 abc	22.6 abc	10.0 d
SMA 505	8.9 ab	6.6 bc	6.0 b	19.2 bc	17.3 bc	16.6 abcd
FR 49-207	9.7 ab	7.3 abc	5.7 b	17.4 bc	17.3 bc	14.6 bcd
1 GM	6.1 b	4.4 c	1.5 c	15.0 b	11.0 c	5.0 e

Means of the clones with the same letter are not significantly different per $p > 0.05$ (Tukey test).

TABLE S9. The relationship between botrytis severity and some of the studied variables is expressed through Pearson's linear correlation. Three years average.

Disease Severity vs:	R ²	r	p value	m	q
SS/TA ratio	0.65	0.81	0.0001	0.0341	2.4185
Soluble Solids	0.53	0.73	0.001	0.1371	17.629
Total acidity	0.19	-0.44	0.09	-0.0358	7.2917
Ravaz index	0.12	-0.35	0.19	-0.3365	13.811
Pruning wood	0.04	0.20	0.47	0.0108	0.51
Total flavonoids	0.08	-0.28	0.29	-5.4073	611.13
Total anthocyanins	0.02	0.14	0.58	0.3633	55.232
Yield/plant	0.09	-0.31	0.24	-0.0475	7.01
Yield/plant vs:	R ²	r	p value	m	q
Soluble Solids	0.28	-0.53	0.034	-0.4698	15.4938
Cluster weight	0.43	0.65	0.004	0.0122	0.0655

SS= Soluble Solids; TA= Titratable Acidity
m = angular coefficient; q = intercept;

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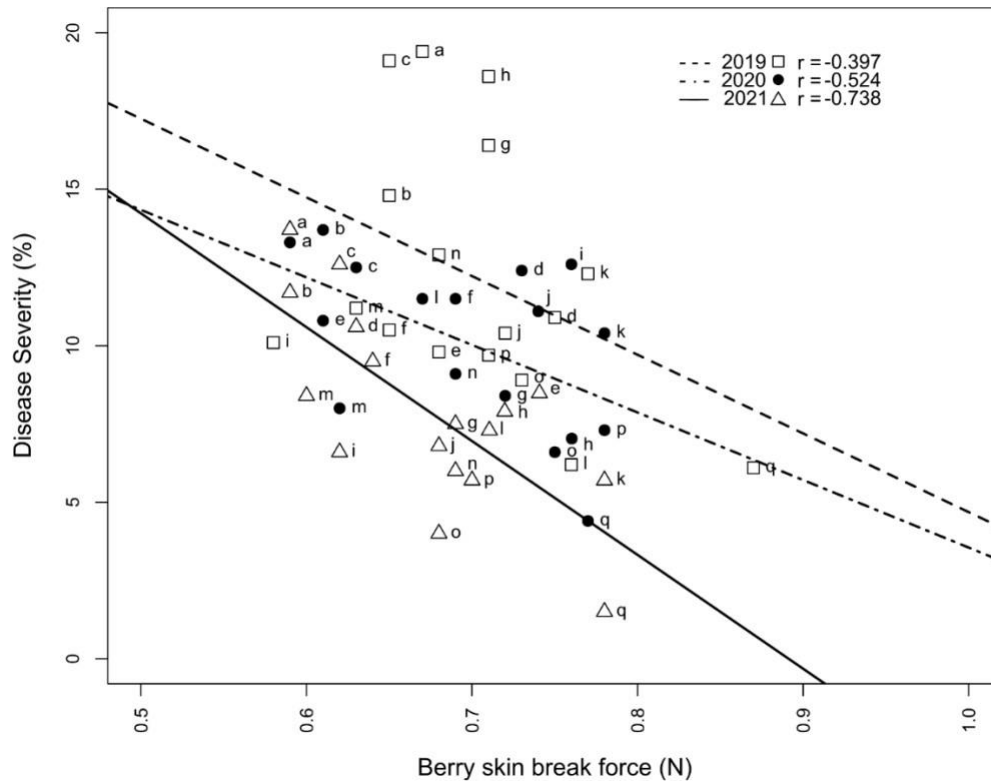


FIGURE S1. Correlation between skin hardness and severity of infections for each individual year.

H 1	a	VCR 5	b	2-15 GM	c	FVG 151	d
F 13 CSG	e	ISMA AVIT 513	f	F1 Toppani	g	Entav 52	h
B 10	i	Entav 53	j	R 6	k	FVG 152	l
Entav 457	m	SMA 514	n	SMA 505	o	FR 49-207	p
1 GM	q						