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Malvasia bianca lunga (clone Cenaia 2)

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Dipartimento di Scienze Agrarie, Alimentari e Agro-ambientali (DiSAAA-a) - Università di Pisa

Acknowledgments

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General information

name Malvasia bianca lunga (clone Cenaia 2)
code ITA419-177
country of selection Italia
region of selection Toscana
province of selection Pisa
locality of selection Toscana
holding institution Dipartimento di Scienze Agrarie, Alimentari e Agro-ambientali (DiSAAA-a) - Università di Pisa
collection vineyard Tos.Co.Vit.

Variety & clone

type of origin spontanea
genera Vitis
specie Vitis vinifera
subspecie sativa
variety Malvasia bianca lunga
variety code IVD-var_3
clone I - Cenaia 2
trueness to type confirmed by ampelography and SSR-markers

Trueness to type

True-name

confirmed **yes**

related bibliography (1)

authors	year	title	journal	citation
Breviglieri N., Casini E.	1964	Malvasia bianca lunga		Ministero dell'Agricoltura e delle Foreste - Principali vitigni da vino coltivati in Italia - Volume III

Trueness to type confirmed by ampelography

confirmation by ampelography **confirmed**

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Breviglieri N., Casini E.	1964	Malvasia bianca lunga		Ministero dell'Agricoltura e delle Foreste - Principali vitigni da vino coltivati in Italia - Volume III

Trueness to type confirmed by SSR-markers

confirmation by SSR-markers **confirmed**

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authors	year	title	journal	citation
D'Onofrio C., Scalabrelli G., De Lorenzis G., Palazzi C.	2008	Genotipizzazione di accensioni di Malvasia a bacca nera, rosa e bianca	Riv. Vitic. Enol.	n. 2-3-4: 371-383

compared loci n.a.

identical loci n.a.

discrepancies n.a.

Standardized microsatellite profile

Standardized microsatellite profile

loci:	predefined loci (9)																	
SSR locus:	VVS2		VVMD5		VVMD7		VVMD27		VrZAG62		VrZAG79		VVMD25		VVMD28		VVMD32	
allele:	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2
size:	145	145	225	239	239	253	179	179	196	200	243	251	240	242	251	257	253	257

other Locus info available online

Images

shoot

shootTipUs

shootTipLs

leaf

leafUs

leafLs

bunch

berry

seed

Ampelography

OIV	description	value		images
001	Young shoot: opening of the shoot tip	5	fully open	
003	Young Shoot: intensity of anthocyanin coloration on prostrate hairs of tip	3	low	
004	Young Shoot: density of prostrate hairs on tip	7	high	
006	Shoot: attitude (before tying)	3	semi-erect	
007	Shoot: color of dorsal side of internodes	2	green and red	
008	Shoot: color of ventral side of internodes	1 / 1	green / green	
016	Shoot: number of consecutive tendrils	1	2 or less	
051	Young leaf: color of the upper side of blade (4 th leaf)	1 / 2	green / yellow	
053	Young leaf: density of prostrate hairs between main veins on lower side of blade (4th leaf)	7	high	
067	Mature leaf: shape of blade	3	pentagonal	
068	Mature leaf: number of lobes	3 / 4	five / seven	
070	Mature leaf: area of anthocyanin coloration of main veins on upper side of blade	1	absent	
072	Mature leaf: goffering of blade	3	weak	
074	Mature leaf: profile of blade in cross section	5	twisted	
075	Mature leaf: blistering of upper side of blade	1	absent or very weak	
076	Mature leaf: shape of teeth	2 / 4	both sides straight / one side concave, one side convex	
079	Mature leaf: degree of opening / overlapping of petiole sinus	9	strongly overlapped	
080	Mature leaf: shape of base of petiole sinus	3	V-shaped	
081-1	Mature leaf: teeth in the petiole sinus	1	none	
081-2	Mature leaf: petiole sinus base limited by veins	2	on one side	
083-2	Mature leaf: teeth in the upper lateral sinuses	1	none	
084	Mature leaf: density of prostrate hairs between the main veins on lower side of blade	7	high	
087	Mature leaf: density of erect hairs on main veins on lower side of blade	3	low	
094	Mature leaf: depth of upper lateral sinuses	5	medium	
155	Shoot: fertility of basal buds (buds 1-3)	5	medium (1,1-1,3)	
202	Bunch: length (peduncle excluded)	9	very long	
204	Bunch: density	5	medium	
206	Bunch: length of peduncle of primary bunch	5 / 7	medium / long	
208	Bunch: shape	2	conical	
209	Bunch: number of wings of the primary bunch	3	3 - 4 wings	
220	Berry: length	3 / 5	short / medium	

221	Berry: width	3 / 5	narrow / medium
223	Berry: shape	2	globose
225	Berry: color of skin	1	green yellow
231	Berry: intensity of flesh anthocyanin coloration	1	none or very weak
235	Berry: firmness of flesh	2	slightly firm
236	Berry: particularity of flavor	1	none
241	Berry: formation of seeds	3	complete

Ampelometry

OIV

no descriptors available for Malvasia bianca lunga (clone Cenaia 2)

Superampelo

distances		
descriptor	value	standard deviation
Distance from the petiole sinus to the lower left sinus	55.180	7.270
Distance from the petiole sinus to the lower right sinus	57.560	9.850
Vein N3', length from the petiole sinus to vein N4'	15.940	9.112
Vein N3, length from the petiole sinus to vein N4	11.480	7.350
Distance from the petiole sinus to the upper left sinus	70.160	21.446
Distance from the petiole sinus to the upper right sinus	65.420	12.138
Length of vein N4'	66.480	5.465
Length of vein N4	69.880	4.482
Length of vein N5'	38.400	9.926
Length of vein N5	45.100	6.382
Leaf length Including the petiole	275.980	18.772
Petiole length	126.680	21.995
Leaf length	221.020	14.896
Leaf width	199.600	4.629
Distance between the ends of veins N3 and N3'	196.120	3.825
Distance between the ends of veins N4 and N4'	81.640	11.217
Length of vein N1	149.320	11.461
Distance between the ends of veins N2 and N2'	173.460	20.436
Length of vein N2'	124.952	5.808
Length of vein N3	98.660	4.712
Width of petiole sinus / Distance between points SP and SP'	-20.740	5.156
Length of vein N2	122.960	5.941
Length of vein N3'	100.460	4.757

angles		
descriptor	value	standard deviation
Angle between N1 and N2' measured at the first bifurcation	57.840	7.913
Angle between N1 and N2 measured at the first bifurcation	60.420	4.543
Angle between N2 and N3' measured at the first bifurcation	52.820	5.595
Angle between N3 and N4 at the first fork of N3	76.840	41.220
Angle between N2 and N3 measured at the first bifurcation	44.760	2.174
Angle between N1' and N2' measured at the ends of the veins	41.700	6.725
Angle between N2 and N3 measured at the ends of the veins	45.980	3.490
Angle between N3' and N4'	91.600	45.361
Angle between N1 and N2 measured at the ends of the veins	47.240	7.027
Angle between N3' and N4' measured at the ends of the veins	49.360	2.821
Angle of opening of the petiole sinus measured at SP and at SP'	35.800	8.680
Angle between N2' and N3' measured at the ends of the veins	58.780	7.134
Angle between N3 and N4 measured at the ends of the veins	53.840	6.808
Angle between I and I' with the center in N1	41.440	4.904
Angle between D and D' with the center in N1	89.300	9.232
Angle between S and S' with the center in N1	43.780	15.091

rations		
descriptor	value	standard deviation
Ratio between the height and the base of the tooth at the end of the vein N4	0.583	0.072
Ratio between the height and the base of the tooth at the end of the vein N2'	0.384	0.278
Ratio between the height and the base of the tooth at the end of the vein N4'	0.689	0.112
Ratio between the sum of the angles a + b and the sum of the distance between the petiole sinus and upper right sinus OS and the petiole sinus and lower right lower right sinus OI	105.120	3.418
Ratio between the length of the vein N5' and the length of the vein N1	0.259	0.074
Ratio between the height and the base of the tooth at the end of the vein N2	0.628	0.221
Ratio between the sum of the angles a' + b' and the sum of the distance between the petiole sinus and upper right sinus OS' and the petiole sinus and lower right lower right sinus OI'	110.660	8.435
Ratio between the length of the vein N4 and the length of the vein N1	0.472	0.063
Ratio between the length of the vein N3' and the length of the vein N1	0.674	0.033
Ratio between the length of the vein N5 and the length of the vein N1	0.304	0.048
Ratio between the length of the vein N4' and the length of the vein N1	0.448	0.054
Multiplication between length and width of the leaf	44156.061	3815.946
Ratio between the distance from the sinus and the length of the vein N2	0.530	0.084
Ratio between the distance from the sinus and the length of the vein N2'	0.561	0.174
Ratio between length and width of the leaf	1.107	0.058
Ratio between the length of the petiole OP and the length of the vein N1	0.857	0.185
Ratio between the length of the vein N2 and the length of the vein N1	0.827	0.077
Ratio between the length of the vein N2' and the length of the vein N1	0.839	0.039
Ratio between the distance from the petiole sinus to the lower right sinus OI and the length of vein N3	0.585	0.104
Ratio between the distance from the petiole sinus to the lower left sinus OI' and the length of vein N3'	0.550	0.067
Ratio between the length of the vein N3 and the length of the vein N1	0.665	0.077

Phenology & production

OIV	description	value	
301	Time of bud burst	7 / 9	late / very late
303	Time of beginning of berry ripening (veraison)	5 / 7	medium / late
351	Vigor of shoot growth	7	strong (90-100 g)
502	Bunch: weight of a single bunch	5 / 7	medium (450-550 g) / high (650-750 g)
503	Berry: single berry weight	3	low (2,5-3,5 g)
504	Yield per m2	7	high (1,8-2,0 kg)
505	Sugar content of must	6	medium-high (18,8-20,2)
506	Total acid content of must	3 / 5	low (5,2-6,8) / medium (8,2-9,8)
508	must specific pH	6	medium-high (3,3-3,4)

Agronomic

plant spacing & training system	value	standard deviation	number of years
Training system	vertical shoot positioning		
Pruning System	horizontal spur cordon		
Distance on the row (m)	0.800		
Distance between rows (m)	2.500		

vigor	value	standard deviation	number of years
Number of shoots/canes per meter of row (number/m)	10.000		3
Number of shoots/canes per vine (number/vine)	8.000		3
Pruning wood's weight per vine meter of row (kg)	0.905		3
Pruning wood's weight per vine (kg)	0.724		3
Cane's weight (g)	94.000		3

fertility	value	standard deviation	number of years
Fertility of basal buds (bunch/bud)	0.850		3
Number of bunch per shoots at flowering (number/shoot)	0.850		3

production's quantitative characteristics	value	standard deviation	number of years
Number of bunches per meter of row (number/m)	8.500		3
Number of bunches per vine (number/vine)	6.800		3
Weight of 100 berries (g)	272.000		3
Bunch's weight (g)	672.000		3
Grape production per hectare (t/ha)	17.190		3
Grape production per meter of row (kg/m)	5.372		3
Grape production per vine (kg/ceppo)	4.298		3
Berry diameter (average of 25 berries) - width (mm)			
Berry diameter (average of 25 berries) - height (mm)			

production's qualitative characteristics	value	standard deviation	number of years
Titratable acidity of must (g/l)	5.920		3
Anthocyanins coloration of flesh? (yes/no)	☐ no	not available	not available
Skin total anthocyanins (g/kg)			
Skin total flavonoids (g/kg)			
Seeds total flavonoids (g/kg)			
pH (pH)	3.430		3
Total polyphenols (g/kg)			
Skin total polyphenols (g/kg)			
Seeds total polyphenols (g/kg)			
Sugar content of must (°Brix)	19.900		3

Berry polyphenols

no polyphenolic descriptors available for Malvasia bianca lunga (clone Cenaia 2)

Berry aroma

no aroma descriptors available for Malvasia bianca lunga (clone Cenaia 2)

Other descr.

no other descriptors available for Malvasia bianca lunga (clone Cenaia 2)

Related bibliography (3)

authors	year	title	journal	citation
D'Onofrio C., Scalabrelli G., De Lorenzis G., Palazzi C.	2008	Genotipizzazione di accensioni di Malvasia a bacca nera, rosa e bianca	Riv. Vitic. Enol.	n. 2-3-4: 371-383
Breviglieri N., Casini E.	1964	Malvasia bianca lunga		Ministero dell'Agricoltura e delle Foreste - Principali vitigni da vino coltivati in Italia - Volume III
Loreti F., Scalabrelli G., Ferroni G., D'Onofrio C.	2004	Osservazioni sul comportamento vegetativo e produttivo di alcuni cloni omologati di Sangiovese, Malvasia bianca toscana e Trebbiano toscano		Atti Convegno "Miglioramento qualitativo delle produzioni vitivinicole e del materiale di produzione, Quaderno ARSIA 1: 11-26.

Accessions of the same variety (7)

- Malvasia Bianca - Dipartimento delle Culture Europee e del Mediterraneo: Architettura, Ambiente, Patrimoni Culturali (DiCEM)
- Malvasia Bianca Lunga - Dipartimento di Scienze Agrarie, degli Alimenti e dell'Ambiente (SAFE) - Università degli Studi di Foggia
- Malvasia bianca lunga (clone Cenaia 2) - Dipartimento di Scienze Agrarie, Alimentari e Agro-ambientali (DiSAAA-a) - Università di Pisa
- Malvasia bianca lunga (clone Rauscedo 2) - Dipartimento di Scienze Agrarie, Alimentari e Agro-ambientali (DiSAAA-a) - Università di Pisa
- Malvasia PT VT2 - Dipartimento di Scienze Agrarie e Forestali, Università della Tuscia, Viterbo
- Malvasia P VT 10 - Dipartimento di Scienze Agrarie e Forestali, Università della Tuscia, Viterbo
- Scannapecora - Dipartimento di Scienze Agrarie, degli Alimenti e dell'Ambiente (SAFE) - Università degli Studi di Foggia