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Barghigiana n (Garf-GR)

D'Onofrio C., Fausto C., Ducci E., Matarese F., Fiorani F., Poli I., 2015. Barghigiana n (Garf-GR), Barghigiana nera. In: Italian Vitis Database, www.vitisdb.it, ISSN 2282-006X

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Acknowledgments

Unione Comuni di Garfagnana (Lucca); Fondazione AGER (AGER Fundation); Agricola Sal Felice (Siena)

General information

name Barghigiana n (Garf-GR)
code ITA419-1194
country of selection Italia
region of selection Toscana
province of selection Lucca
locality of selection Garfagnana
holding institution Dipartimento di Scienze Agrarie, Alimentari e Agro-ambientali (DiSAAA-a) - Università di Pisa
collection vineyard Garfagnana - Vivaio La Piana, Camporgiano (Lucca)

Variety & clone

type of origin spontanea
genera Vitis
specie Vitis vinifera
subspecie sativa
variety Barghigiana
variety code IVD-var_44
clone not available
trueness to type confirmed by ampelography and SSR-markers

Trueness to type

True-name

confirmed **yes**

related bibliography (1)

authors	year	title	journal	citation
Basso M.,	1993	Contributo alla conoscenza del patrimonio genetico-viticolo toscano.		La ricerca sperimentale in corso per la viticoltura toscana. Centro sperimentale per l'ortoflorofrutticoltura della Maremma toscana. San Felice (SI), maggio 1993, 139-143

Trueness to type confirmed by ampelography

confirmation by ampelography **confirmed**

related bibliography (1)

authors	year	title	journal	citation
D'Onofrio C., Fausto C., Matarese F., Materazzi A., Scalabrelli G., Fiorani F., Poli I.,	2015	Genotyping of Grapevine Varieties from Garfagnana (Northern Tuscany): Evidence of a Historical Centre of Diversity	American Journal of Enology and Viticulture	Am. J. Enol. Vitic. 67: 120-126

Trueness to type confirmed by SSR-markers

confirmation by SSR-markers **confirmed**

related bibliography (1)

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D'Onofrio C., Fausto C., Matarese F., Materazzi A., Scalabrelli G., Fiorani F., Poli I.,	2015	Genotyping of Grapevine Varieties from Garfagnana (Northern Tuscany): Evidence of a Historical Centre of Diversity	American Journal of Enology and Viticulture	Am. J. Enol. Vitic. 67: 120-126

compared loci **14**

identical loci **14**

discrepancies n.a.

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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:	133	151	227	231	247	247	189	189	204	204	245	249	240	242	237	239	241	273

other Locus info available online

Images

shoot

shootTipUs

shootTipLs

leaf

leafUs

leafLs

petiol sinus

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	5	medium	
006	Shoot: attitude (before tying)	1 / 3	erect / semi-erect	
007	Shoot: color of dorsal side of internodes	2	green and red	
008	Shoot: color of ventral side of internodes	1	green	
016	Shoot: number of consecutive tendrils	1	2 or less	
051	Young leaf: color of the upper side of blade (4 th leaf)	2	yellow	
053	Young leaf: density of prostrate hairs between main veins on lower side of blade (4th leaf)	5	medium	

067	Mature leaf: shape of blade	3	pentagonal	
068	Mature leaf: number of lobes	3	five	
070	Mature leaf: area of anthocyanin coloration of main veins on upper side of blade	1	absent	
072	Mature leaf: goffering of blade	1	absent or very weak	
074	Mature leaf: profile of blade in cross section	1	flat	
075	Mature leaf: blistering of upper side of blade	5	medium	
076	Mature leaf: shape of teeth	3	both sides convex	
079	Mature leaf: degree of opening / overlapping of petiole sinus	3	open	
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	1	not limited	
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	1	none or very low	
087	Mature leaf: density of erect hairs on main veins on lower side of blade	3 / 5	low / medium	
094	Mature leaf: depth of upper lateral sinuses	5	medium	
151	Flower: sexual organs	3	fully developed stamens and fully developed gynoecium	
152	Inflorescence: insertion of 1 st inflorescence	2	3rd and 4th node	
155	Shoot: fertility of basal buds (buds 1-3)	3 / 5	low (0,7-0,9) / medium (1,1-1,3)	
202	Bunch: length (peduncle excluded)	5 / 7	medium / long	
204	Bunch: density	7 / 9	dense / very dense	
206	Bunch: length of peduncle of primary bunch	1	very short	
208	Bunch: shape	3	funnel shaped	
209	Bunch: number of wings of the primary bunch	2	1 - 2 wings	
220	Berry: length	5	medium	
221	Berry: width	5	medium	
223	Berry: shape	4	narow ellipsoid	
225	Berry: color of skin	6	blue black	
231	Berry: intensity of flesh anthocyanin coloration	5	medium	
235	Berry: firmness of flesh	3	very firm	
236	Berry: particularity of flavor	1	none	
241	Berry: formation of seeds	3	complete	

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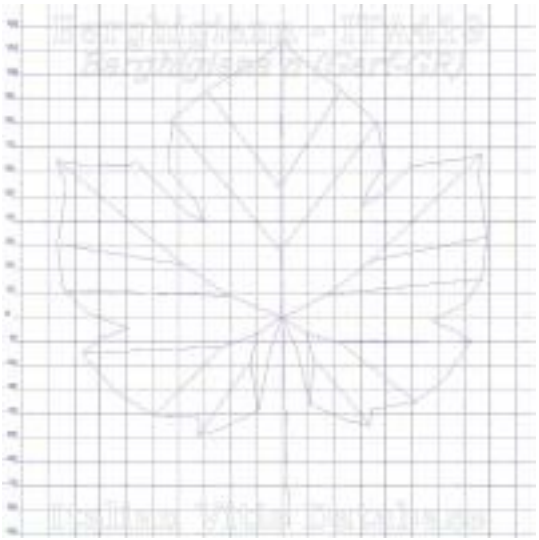
Ampelometry



ampelometric leaf

OIV

OIV	PDF	description	value	
601	PDF	Mature leaf: length of vein N1	3	short (105 mm)
602	PDF	Mature leaf: length of vein N2	5	medium (105 mm)
603	PDF	Mature leaf: length of vein N3	5	medium (75 mm)
604	PDF	Mature leaf: length of vein N4	9	very long (55 mm and over)
605	PDF	Mature leaf: length petiole sinus to upper lateral leaf sinus	3	short (50 mm)
606	PDF	Mature leaf: length petiole sinus to lower lateral leaf sinus	5	medium (60 mm)
607	PDF	Mature leaf: angle between N1 and N2 measured at the first ramification	7	large (56°-70°)
608	PDF	Mature leaf: angle between N2 and N3 measured at the first ramification	7	large (56°-70°)
609	PDF	Mature leaf: angle between N3 and N41) measured at the first ramification	7	large (56°-70°)
610	PDF	Mature leaf: angle between N3 and the tangent between petiole point	7	large (56°-70°)
612	PDF	Mature leaf: length of tooth N2	3	short (10 mm)
613	PDF	Mature leaf: width of tooth N2	3	narrow (10 mm)
614	PDF	Mature leaf: length of tooth N4	1	very short (6 mm)
615	PDF	Mature leaf: width of tooth N4	3	narrow (10 mm)
617	PDF	Mature leaf: length between the tooth tip of N2 and the tooth tip of the first secondary vein of N2	7	long (56-70 mm)

Superampelo

distances		
descriptor	value	standard deviation
Distance from the petiole sinus to the lower right sinus	58.100	7.000
Distance from the petiole sinus to the lower left sinus	60.100	7.400
Distance from the petiole sinus to the upper right sinus	55.800	7.800
Distance from the petiole sinus to the upper left sinus	50.100	5.000
Vein N3, length from the petiole sinus to vein N4	11.800	1.500
Vein N3', length from the petiole sinus to vein N4'	11.900	1.500
Length of vein N5	19.200	3.200
Length of vein N5'	20.600	3.200
Length of vein N4	45.200	5.100
Length of vein N4'	48.000	4.800
Distance between petiole point and end of vein N4	56.300	6.000
Distance between petiole point and end of vein N4'	58.900	5.000
Leaf width	164.400	6.500
Leaf length	166.900	10.700
Petiole length	87.200	15.800
Leaf length Including the petiole	203.000	20.000
Distance between the ends of veins N2 and N2'	163.700	6.500
Length of vein N1	115.800	7.400
Distance between the ends of veins N4 and N4'	66.800	8.800
Distance between the ends of veins N3 and N3'	150.300	12.500
Length of vein N2	102.400	6.000
Width of petiole sinus / Distance between points SP and SP'	-15.300	5.500
Length of vein N3	73.400	8.700
Length of vein N2'	108.700	6.300
Distance between the tooth tip of N2 and the tooth tip of the first ramification (secondary vein) of N2	60.700	7.900
Length of vein N3'	79.300	7.200
Distance between the tooth tip of N2' and the tooth tip of the first ramification (secondary vein) of N2'	65.000	9.100

angles		
descriptor	value	standard deviation
Angle between N1 and N2 measured at the first bifurcation	63.700	4.100
Angle between N2 and N3 measured at the first bifurcation	63.400	6.700
Angle between N1 and N2' measured at the first bifurcation	65.200	6.100
Angle between N3 and N4 at the first fork of N3	61.500	4.200
Angle between N2 and N3' measured at the first bifurcation	58.700	4.600
Angle between N1 and N2 measured at the ends of the veins	48.700	4.300
Angle between N3' and N4'	56.800	3.000
Angle between N2 and N3 measured at the ends of the veins	48.800	4.100
Angle between N1' and N2' measured at the ends of the veins	53.300	6.300
Angle between N3 and N4 measured at the ends of the veins	45.100	4.800
Angle between N2' and N3' measured at the ends of the veins	47.600	5.600
Angle of opening of the petiole sinus measured at SP and at SP'	33.100	13.400
Angle between N3' and N4' measured at the ends of the veins	45.500	6.200
Angle between S and S' with the center in N1	45.900	6.500
Angle between D and D' with the center in N1	97.100	6.800
Angle between N2 and N3 measured at the petiole point and between N2 and N3 tooth tip	65.800	7.700
Angle between I and I' with the center in N1	52.600	4.200
Angle between N2 and N3 measured at the petiole point and between N2' and N3' tooth tip	65.700	8.300

rations		
descriptor	value	standard deviation
Ratio between the length of the vein N2' and the length of the vein N1	0.940	0.043
Ratio between the length of the vein N3 and the length of the vein N1	0.635	0.081
Ratio between the distance from the petiole sinus to the lower left sinus OI' and the length of vein N3'	0.758	0.064
Ratio between the length of the vein N2 and the length of the vein N1	0.886	0.048
Ratio between the distance from the sinus and the length of the vein N2'	0.461	0.040
Ratio between the distance from the petiole sinus to the lower right sinus OI and the length of vein N3	0.794	0.064
Multiplication between length and width of the leaf	27489.000	2674.000
Ratio between the length of the petiole OP and the length of the vein N1	0.753	0.131
Ratio between length and width of the leaf	1.015	0.043
Ratio between the distance from the sinus and the length of the vein N2	0.544	0.063
Media of the base of the teeth of the left side	5.208	0.854
Media of the base of the teeth of the right side	5.207	0.976
Media height of the teeth of the left side	4.848	0.785
Ratio between the height and the base of the tooth at the end of the vein N4'	0.598	0.120
Media height of the teeth of the right side	4.169	0.785
Ratio between the height and the base of the tooth at the end of the vein N2'	0.807	0.138
Ratio between the height and the base of the tooth at the end of the vein N4	0.571	0.060
Ratio between the height and the base of the teeth of the left side	0.956	0.227
Ratio between the height and the base of the tooth at the end of the vein N2	0.711	0.102
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'	0.020	0.002
Ratio between the height and the base of the teeth of the right side	0.808	0.182
Ratio between the length of the vein N5' and the length of the vein N1	0.178	0.028
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	0.020	0.002
Ratio between the length of the vein N4' and the length of the vein N1	0.416	0.043
Ratio between the length of the vein N5 and the length of the vein N1	0.166	0.030
Ratio between the length of the vein N3' and the length of the vein N1	0.685	0.038
Ratio between the length of the vein N4 and the length of the vein N1	0.392	0.051

Phenology & production

OIV	description	value	
301	Time of bud burst	3 / 5	early / medium
303	Time of beginning of berry ripening (veraison)	5	medium
502	Bunch: weight of a single bunch	7	high (650-750 g)
503	Berry: single berry weight	2	between very low and low (1,5-2,5 g)
505	Sugar content of must	5	medium (17,2-18,8)
506	Total acid content of must	5	medium (8,2-9,8)
508	must specific pH	3	low (3,0-3,1)

Agronomic

plant spacing & training system	value	standard deviation	number of years
Training system	Guyot		
Pruning System			
Distance between rows (m)	2.200		
Distance on the row (m)	0.900		

vigor	value	standard deviation	number of years
Cane’s weight (g)	0.000	0.000	2
Pruning wood’s weight per vine (kg)	0.000		2
Pruning wood’s weight per vine meter of row (kg)	0.000		2
Number of shoots/canes per vine (number/vine)	0.000		2
Number of shoots/canes per meter of row (number/m)	0.000		2

fertility	value	standard deviation	number of years
Fertility of basal buds (bunch/bud)	0.000	0.000	2
Number of bunch per shoots at flowering (number/shoot)		0.000	2

production's quantitative characteristics	value	standard deviation	number of years
Number of bunches per meter of row (number/m)	0.000		2
Number of bunches per vine (number/vine)	0.000	0.000	2
Weight of 100 berries (g)	0.000	0.000	2
Bunch’s weight (g)	0.000	0.000	2
Grape production per hectare (t/ha)	0.000		2
Grape production per meter of row (kg/m)	0.000		2
Grape production per vine (kg/ceppo)	0.000	0.000	2

production's qualitative characteristics	value	standard deviation	number of years
Titratable acidity of must (g/l)	0.000		2
pH (pH)	0.000		2
Sugar content of must (°Brix)	0.000		2

Berry polyphenols

no polyphenolic descriptors available for Barghigiana n (Garf-GR)

Berry aroma

no aroma descriptors available for Barghigiana n (Garf-GR)

Other descr.

no other descriptors available for Barghigiana n (Garf-GR)

Related bibliography (1)

authors	year	title	journal	citation
D'Onofrio C., Fausto C., Matarese F., Materazzi A., Scalabrelli G., Fiorani F., Poli I.,	2015	Genotyping of Grapevine Varieties from Garfagnana (Northern Tuscany): Evidence of a Historical Centre of Diversity	American Journal of Enology and Viticulture	Am. J. Enol. Vitic. 67: 120-126

Accessions of the same variety (1)

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

Note

Foto: Claudio D'Onofrio, Puntoni Piero Ampelografia: Claudio D'Onofrio, Belluomini Paolo, Calabrò Rolando, Rocco Fausta Ampelometria: Claudio D'Onofrio Fenologia: Claudio D'Onofrio, Ducci Eleonora, Matarese Fabiola, Cuzzola Angela SSR: Claudio D'Onofrio, Fausto Catia, Matarese Fabiola