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Nicola n (Garf-RT)

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

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Acknowledgments

Unione Comuni di Garfagnana; Fondazione AGER (AGER Fundation)

General information

name Nicola n (Garf-RT)
code ITA419-762-1
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 Nicola nera
variety code IVD-var_157
clone not available
trueness to type confirmed by ampelography

Trueness to type

True-name

confirmed **yes**

related bibliography (1)

authors	year	title	journal	citation
Basso M.,	1992	Contributo alla conoscenza del patrimonio genetico-viticolo toscano. Province di Pisa, Lucca e Massa Carrara.		Proceedings of "Germoplasma frutticolo, salvaguardia e valorizzazione delle risorse genetiche" meeting, Alghero (Italy), 21-25 September 1992, 505-512.

Trueness to type confirmed by ampelography

confirmation by ampelography **confirmed**

related bibliography (1)

authors	year	title	journal	citation
Basso M.,	1992	Contributo alla conoscenza del patrimonio genetico-viticolo toscano. Province di Pisa, Lucca e Massa Carrara.		Proceedings of "Germoplasma frutticolo, salvaguardia e valorizzazione delle risorse genetiche" meeting, Alghero (Italy), 21-25 September 1992, 505-512.

Trueness to type confirmed by SSR-markers

confirmation by SSR-markers **not checked**

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	153	225	231	239	247	181	189	194	204	245	259	240	242	237	261	253	273

other Locus info available online

Images

shoot

shootTipUs

shootTipLs

leaf

leafUs

leafLs

bunch

berry

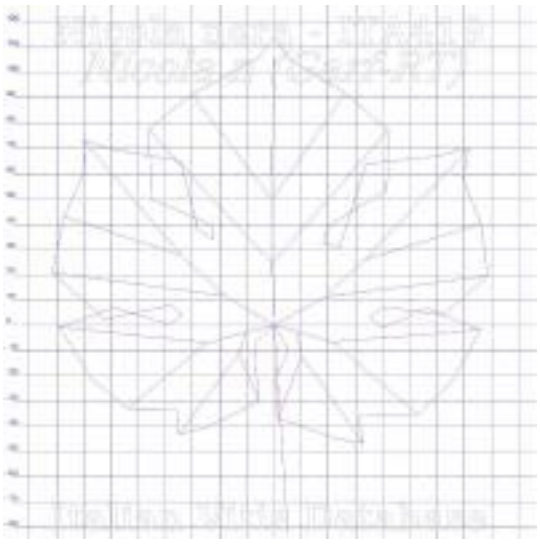
seed

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	7	high	
004	Young Shoot: density of prostrate hairs on tip	3	low	
006	Shoot: attitude (before tying)	1 / 3	erect / semi-erect	
007	Shoot: color of dorsal side of internodes	2 / 3	green and red / red	
008	Shoot: color of ventral side of internodes	1 / 2	green / green and red	
016	Shoot: number of consecutive tendrils	1	2 or less	
051	Young leaf: color of the upper side of blade (4 th leaf)	3	bronze	
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	3 / 5	up to the 1st bifurcation / beyond the 2nd bifurcation	
072	Mature leaf: goffering of blade	3	weak	
074	Mature leaf: profile of blade in cross section	1	flat	
075	Mature leaf: blistering of upper side of blade	3 / 5	weak / medium	
076	Mature leaf: shape of teeth	2	both sides straight	
079	Mature leaf: degree of opening / overlapping of petiole sinus	7	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	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	low	
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)	5 / 7	medium (1,1-1,3) / high (1,5-1,7)	
202	Bunch: length (peduncle excluded)	5	medium	
204	Bunch: density	5	medium	
206	Bunch: length of peduncle of primary bunch	3	short	
208	Bunch: shape	2	conical	
209	Bunch: number of wings of the primary bunch	2	1 - 2 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	3	red	
231	Berry: intensity of flesh anthocyanin coloration	3	weak	
235	Berry: firmness of flesh	3	very firm	
236	Berry: particularity of flavor	1	none	
241	Berry: formation of seeds	3	complete	

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	1	very short (30 mm)
606	PDF	Mature leaf: length petiole sinus to lower lateral leaf sinus	1	very short (30 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	5	medium (46°-55°)
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	9	very large (> 70°)
612	PDF	Mature leaf: length of tooth N2	3	short (10 mm)
613	PDF	Mature leaf: width of tooth N2	5	medium (14 mm)
614	PDF	Mature leaf: length of tooth N4	3	short (10 mm)
615	PDF	Mature leaf: width of tooth N4	5	medium (14 mm)
617	PDF	Mature leaf: length between the tooth tip of N2 and the tooth tip of the first secondary vein of N2	5	medium (46-55 mm)

Superampelo

distances		
descriptor	value	standard deviation
Distance from the petiole sinus to the lower right sinus	35.700	8.600
Distance from the petiole sinus to the lower left sinus	34.000	4.400
Distance from the petiole sinus to the upper right sinus	37.200	4.800
Distance from the petiole sinus to the upper left sinus	40.700	17.400
Vein N3, length from the petiole sinus to vein N4	8.900	1.900
Vein N3', length from the petiole sinus to vein N4'	10.700	2.400
Length of vein N5	26.000	4.400
Length of vein N5'	20.600	6.300
Length of vein N4	50.800	7.400
Length of vein N4'	47.900	6.300
Distance between petiole point and end of vein N4	57.300	7.300
Distance between petiole point and end of vein N4'	56.200	8.100
Leaf width	158.100	17.900
Leaf length	161.600	18.900
Petiole length	82.400	10.600
Leaf length Including the petiole	196.200	22.300
Distance between the ends of veins N2 and N2'	142.600	20.200
Length of vein N1	113.800	13.600
Distance between the ends of veins N4 and N4'	68.100	12.200
Distance between the ends of veins N3 and N3'	155.100	17.000
Length of vein N2	100.800	11.400
Width of petiole sinus / Distance between points SP and SP'	-10.200	1.900
Length of vein N3	76.500	8.300
Length of vein N2'	102.000	12.700
Distance between the tooth tip of N2 and the tooth tip of the first ramification (secondary vein) of N2	51.000	11.800
Length of vein N3'	79.500	10.200
Distance between the tooth tip of N2' and the tooth tip of the first ramification (secondary vein) of N2'	45.100	13.300

angles		
descriptor	value	standard deviation
Angle between N1 and N2 measured at the first bifurcation	60.200	4.000
Angle between N2 and N3 measured at the first bifurcation	48.200	5.800
Angle between N1 and N2' measured at the first bifurcation	55.900	5.700
Angle between N3 and N4 at the first fork of N3	62.400	5.100
Angle between N2 and N3' measured at the first bifurcation	47.400	6.700
Angle between N1 and N2 measured at the ends of the veins	45.600	6.300
Angle between N3' and N4'	55.200	4.500
Angle between N2 and N3 measured at the ends of the veins	46.200	5.100
Angle between N1' and N2' measured at the ends of the veins	43.900	7.300
Angle between N3 and N4 measured at the ends of the veins	53.400	3.200
Angle between N2' and N3' measured at the ends of the veins	46.500	7.500
Angle of opening of the petiole sinus measured at SP and at SP'	26.200	11.700
Angle between N3' and N4' measured at the ends of the veins	50.600	5.500
Angle between S and S' with the center in N1	29.100	11.700
Angle between D and D' with the center in N1	101.100	10.700
Angle between N2 and N3 measured at the petiole point and between N2 and N3 tooth tip	85.800	8.200
Angle between I and I' with the center in N1	35.000	4.900
Angle between N2 and N3 measured at the petiole point and between N2' and N3' tooth tip	79.300	7.100

rations		
descriptor	value	standard deviation
Media of the base of the teeth of the left side	7.086	1.571
Media of the base of the teeth of the right side	7.298	1.963
Media height of the teeth of the left side	5.840	1.093
Ratio between the height and the base of the tooth at the end of the vein N4'	0.612	0.134
Media height of the teeth of the right side	5.874	1.093
Ratio between the height and the base of the tooth at the end of the vein N2'	0.767	0.079
Ratio between the height and the base of the tooth at the end of the vein N4	0.712	0.095
Ratio between the height and the base of the teeth of the left side	0.851	0.234
Ratio between the height and the base of the tooth at the end of the vein N2	0.812	0.115
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'	0.026	0.007
Ratio between the height and the base of the teeth of the right side	0.852	0.329
Ratio between the length of the vein N5' and the length of the vein N1	0.178	0.036
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	0.027	0.004
Ratio between the length of the vein N4' and the length of the vein N1	0.421	0.019
Ratio between the length of the vein N5 and the length of the vein N1	0.228	0.025
Ratio between the length of the vein N3' and the length of the vein N1	0.699	0.038
Ratio between the length of the vein N4 and the length of the vein N1	0.446	0.022
Ratio between the length of the vein N2' and the length of the vein N1	0.897	0.048
Ratio between the length of the vein N3 and the length of the vein N1	0.674	0.038
Ratio between the distance from the petiole sinus to the lower left sinus OI' and the length of vein N3'	0.430	0.043
Ratio between the length of the vein N2 and the length of the vein N1	0.887	0.033
Ratio between the distance from the sinus and the length of the vein N2'	0.401	0.173
Ratio between the distance from the petiole sinus to the lower right sinus OI and the length of vein N3	0.465	0.094
Multiplication between length and width of the leaf	25837.000	5995.000
Ratio between the length of the petiole OP and the length of the vein N1	0.726	0.064
Ratio between length and width of the leaf	1.022	0.021
Ratio between the distance from the sinus and the length of the vein N2	0.374	0.078

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Phenology & production

OIV	description	value	
301	Time of bud burst	3 / 5	early / medium
303	Time of beginning of berry ripening (veraison)	3 / 5	early / medium
351	Vigor of shoot growth	7 / 9	strong (90-100 g) / very strong (>110 g)
502	Bunch: weight of a single bunch	3 / 5	low (250-350 g) / medium (450-550 g)
503	Berry: single berry weight	2	between very low and low (1,5-2,5 g)
504	Yield per m2	3 / 5	low (1,0-1,2 kg) / medium (1,4-1,6 kg)
505	Sugar content of must	5	medium (17,2-18,8)
506	Total acid content of must	3	low (5,2-6,8)
508	must specific pH	3 / 5	low (3,0-3,1) / medium (3,2-3,3)

Agronomic

plant spacing & training system	value	standard deviation	number of years
Training system	Guyot		
Pruning System			
Distance between rows (m)	3.000		
Distance on the row (m)	1.000		

vigor	value	standard deviation	number of years
Cane’s weight (g)	0.110	0.007	2
Pruning wood’s weight per vine (kg)	1.237		2
Pruning wood’s weight per vine meter of row (kg)	1.237		2
Number of shoots/canes per vine (number/vine)	4.500		2
Number of shoots/canes per meter of row (number/m)	4.500		2

fertility	value	standard deviation	number of years
Fertility of basal buds (bunch/bud)	1.475	0.389	2
Number of bunch per shoots at flowering (number/shoot)	1.890	0.390	2

production's quantitative characteristics	value	standard deviation	number of years
Number of bunches per meter of row (number/m)	4.500		2
Number of bunches per vine (number/vine)	8.500	0.710	2
Weight of 100 berries (g)	1.413	0.385	2
Bunch’s weight (g)	375.000	35.360	2
Grape production per hectare (t/ha)	12.500		2
Grape production per meter of row (kg/m)	3.750		2
Grape production per vine (kg/ceppo)	3.750	0.636	2

production's qualitative characteristics	value	standard deviation	number of years
Titratable acidity of must (g/l)	7.480	1.780	2
pH (pH)	3.040	0.190	2
Sugar content of must (°Brix)	17.900	2.400	2

Berry polyphenols

no polyphenolic descriptors available for Nicola n (Garf-RT)

Berry aroma

no aroma descriptors available for Nicola n (Garf-RT)

Other descr.

no other descriptors available for Nicola n (Garf-RT)

Related bibliography (2)

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
Basso M.,	1992	Contributo alla conoscenza del patrimonio genetico-viticolo toscano. Province di Pisa, Lucca e Massa Carrara.		Proceedings of "Germoplasma frutticolo, salvaguardia e valorizzazione delle risorse genetiche" meeting, Alghero (Italy), 21-25 September 1992, 505-512.

Accessions of the same variety (1)

- Nicola n (Garf-RT) - 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