

Supplemental Data for:

Štajner, N., D. Rusjan, Z. Korošec-Koruza, and B. Javornik. 2011.

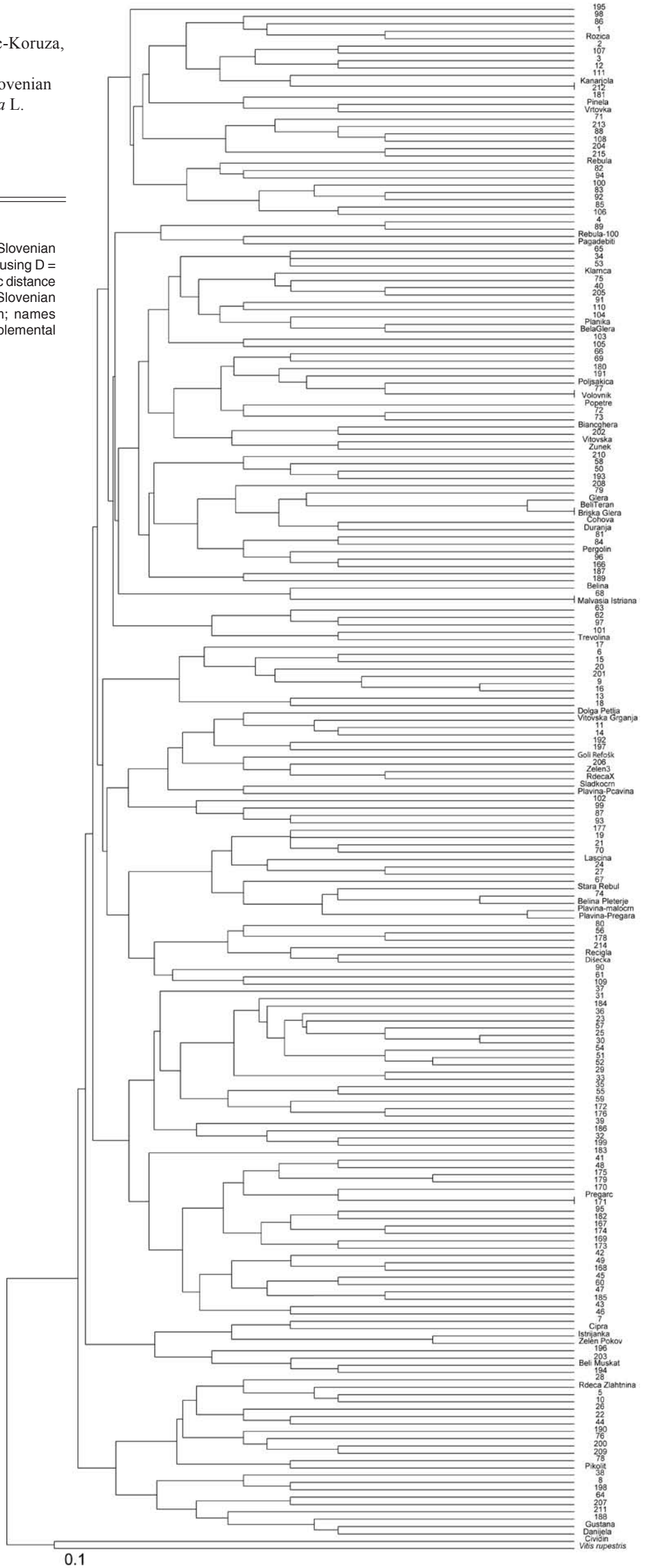
Genetic Characterization of Old Slovenian Grapevine Varieties of *Vitis vinifera* L.

by Microsatellite Genotyping

Am. J. Enol. Vitic. 62:250–255.

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Supplemental Figure 1 Phenogram of Slovenian and other European grapevine varieties using D = 1- (proportion of shared alleles) as genetic distance and UPGMA as the grouping method. Slovenian varieties are named in the phenogram; names of European varieties are listed in Supplemental Table 1.



0.1

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Supplemental Table 1 List of names of European and Slovenian varieties included in the phenogram in Supplemental Figure 1.

1	Blauburger	73	Posip Crni	145	Zelen Pokov
2	Blaufränkisch	74	Ranfol	146	Zelen2.4 ^d
3	Elbling	75	Skrlet	147	Poljšakica Lože
4	Geißtutte	76	Teran	148	Planika
5	Goldburger	77	Vela Pergolla	149	Bela Glera
6	Jubiläumsrebe	78	Vrbnicka Zlahtina	150	Briška Glera
7	Königsast	79	Zilavka	151	Guštana
8	Müller Thurgau	80	Akominato	152	Vitovska Grganja
9	Neuburger	81	Aetonychi	153	Pergolin
10	Orangetraube	82	Agiorgitiko	154	Danijela
11	Österreichisch Weiß	83	Ákiki	155	Vrtovka
12	Rheinriesling	84	Voidamato Lasithiou	156	Dišečka
13	Rotgipfler	85	Dafnia	157	Dolga Petlja
14	Schlagerblut	86	Dermatas	158	Volovnik
15	Silvaner Grün	87	Eftakoilo	159	Cividin
16	Veltliner Frührot	88	Fokiano	160	Zunek
17	Veltliner Grün	89	Karatsova Naousis	161	Rečigla
18	Veltliner Rot	90	Kolokythas Iefkos	162	Klarnca
19	Wildbacher Blau	91	Kotsifali	163	Pikolit
20	Zierfandler	92	Krystalli	164	<i>Vitis rupestris</i>
21	Aligoté	93	Kritiko mavro	165	Rdeča Žlahtnina
22	Cabernet franc	94	Liatiko	166	Airen
23	Cabernet Sauvignon	95	Mantilaria	167	Alarije
24	Chardonnay	96	Mavrodaphni	168	Blanca Cayetana
25	Chenin blanc	97	Merkouri	169	Bobal
26	Cot	98	Moschofilero	170	Garnacha
27	Gamay	99	Nychato	171	Garnacha Tintorera
28	Merlot	100	Petrachladi	172	Godello
29	Pinot	101	Plyto	173	Juan Ibanez
30	Sauvignon blanc	102	Psevdosyriko	174	Macabeo
31	Semillon	103	Roditis kokkinos	175	Malvar
32	Shiraz	104	Romeiko	176	Maturana
33	St. Laurent	105	Romeiko Machaira	177	Matza zuri
34	Alfrocheiro	106	Syriki	178	Mouraton
35	Arinto de Bucelas	107	Theiako	179	Merseguera
36	Arinto no Douro	108	Thrapsathiri	180	Monastrell
37	Avesso	109	Tsaousi	181	Ondarrabi Beltza
38	Azal Branco	110	Vidiano	182	Pedro Ximenez
39	Baga	111	Zakynthino	183	Tempranillo
40	Bical	112	Laščina	184	Verdejo tinto
41	Boal Cachudo	113	Pregarc	185	Zalema
42	Boal Ratinho	114	Trevolina	186	Aglianico
43	Camarate	115	Goli Refošk	187	Albarola
44	Esgana Cão	116	Grganc ^a	188	Avana'
45	Fernão Pires	117	Biancghera	189	Avarengo
46	Jaen	118	Kanarjola	190	Barbera
47	Negra Mole	119	Cipra	191	Barbera bianca
48	Periquita	120	Zelen3	192	Bonarda Piemontese
49	Rabo de Ovelha	121	Beli Muškat	193	Bosco
50	Ramisco	122	Rebula stara	194	Brachetto d'Acqui
51	Rufete	123	Rebula-100	195	Cortese
52	Saborinho	124	Istrijanka	196	Croatina
53	Terrantêz	125	Plavina-maločrn	197	Dolcetto
54	Touriga Nacional	126	Pagadebiti	198	Erbaluce
55	Trajadura	127	Vitovska	199	Fiano
56	Trincadeira Preta	128	RdečaX	200	Grignolino
57	Verdelho	129	BeliTeran	201	Lambrusca di Alessandria
58	Vinhão	130	Cohova	202	Malvasia Casorzo
59	Viosinho	131	Sladkočrn	203	Malvasia Schierano
60	Vital	132	Rožica	204	Nebbiolo Lampia
61	Babic	133	Duranja	205	Neiret pinerolese
62	Bogdanusa	134	Rečigla ^b	206	Neretta cuneese
63	Debit	135	Popetre	207	Pelaverga Pagno
64	Gegic	136	Belina	208	Quagliano
65	Hravatica	137	Glera	209	Refosco ped. rosso
66	Kraljevina Crvena	138	Plavina-Pčavina	210	Sangiovese
67	Lasina	139	Plavina-Pregara	211	Teroldego
68	Malvazija Istarska	140	Malvasia Istriana	212	Trebbiano toscano
69	Mirkovaca	141	Borgonja Bela ^c	213	Uva rara
70	Plavec Zuti	142	Rebula	214	Vermentino
71	Plavina	143	Belina Pleterje	215	Vespolina
72	Posip	144	Pinela		

Some synonymic or very closely related varieties were not included in the phenogram:

^aGrganc = Rebula-100

^bRečigla = Rečigla

^cBorgonja Bela = Malvasia istriana

^dZelen 2.4 = Pinela

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Supplemental Table 2 Likelihood ratios of the probability of the proposed parentages of different cultivars versus other possibilities. Values in parentheses are the cumulative likelihood ratios calculated with 95% upper confidence limits for allele frequencies. The calculations are based on the data of 210 cultivars and seven microsatellite loci. The order of the parents in the table does not indicate the actual direction of the cross.

Cultivar	Proposed parents	Cumulative likelihood ratios of suggested parentage (1)x(2) versus				
		XxY ^{a,b}	(1)xX ^{a,c}	rel(2)x(1) ^{a,d}	(2)xX ^{a,c}	rel(1)x(2) ^{a,d}
Rožica	Rebula stara	1.07E+04	7.10E+01	4.87E+00	1.77E+03	1.34E+01
	Bosco	1.12E+03	2.53E+01	3.39E+00	5.05E+02	9.80E+00
Rebula stara	Rheinriesling	1.19E+05	3.31E+03	1.38E+01	3.30E+03	1.77E+01
	Biancghera	9.68E+03	9.46E+02	1.02E+01	9.15E+02	1.28E+01
Vitovska Grganja	Wildbacher Blau	1.04E+05	1.12E+04	1.81E+01	5.17E+02	9.86E+00
	Skrlet	8.06E+03	2.49E+03	1.36E+01	1.74E+02	7.11E+00
Zelen2.4	Rebula stara	1.73E+05	1.27E+03	1.26E+01	4.08E+02	8.85E+00
	Vrtovka	1.63E+04	3.88E+02	9.05E+00	1.22E+02	6.12E+00
Biancghera	Gegic	6.63E+04	1.62E+02	7.29E+00	1.84E+03	1.39E+01
	Rebula stara	5.61E+03	5.79E+01	5.18E+00	5.30E+02	1.01E+01
Debit	Lasina	1.31E+08	8.88E+04	2.58E+01	9.47E+04	2.57E+01
	Trevolina	4.07E+06	1.45E+04	1.96E+01	1.79E+04	1.99E+01
Cipro	Plavec Zuti	6.79E+06	2.26E+05	3.26E+01	1.83E+03	1.48E+01
	Malvasia Schierano	4.03E+05	4.04E+04	2.53E+01	5.77E+02	1.09E+01
Plavina-maločrn	Plavec Zuti	3.92E+05	4.50E+03	1.84E+01	2.79E+03	1.64E+01
	Vermantino	3.64E+04	1.30E+03	1.36E+01	8.97E+02	1.24E+01
Bela Glera	Romeiko	6.69E+04	1.77E+02	7.62E+00	1.08E+03	1.25E+01
	Glera	7.19E+03	6.27E+01	5.34E+00	3.62E+02	9.21E+00
Plavec Zuti	Cipro	5.08E+04	1.69E+03	1.22E+01	5.82E+02	1.01E+01
	Plavina-maločrn	5.31E+03	5.33E+02	9.02E+00	1.90E+02	7.39E+00
Ranfol	Rebula stara	1.29E+05	4.39E+02	8.46E+00	3.68E+03	1.54E+01
	Glera	1.01E+04	1.27E+02	5.86E+00	9.59E+02	1.13E+01
Glera	Vitovska	4.67E+04	1.87E+03	1.40E+01	7.55E+02	1.10E+01
	Bela Glera	4.51E+03	5.70E+02	1.04E+01	2.27E+02	7.82E+00
Duranja	Belina	9.00E+04	5.21E+02	1.08E+01	8.00E+03	1.90E+01
	Grignolino	8.17E+03	1.66E+02	7.63E+00	2.21E+03	1.45E+01
Vrtovka	Zelen2.4	2.21E+06	5.23E+03	1.60E+01	1.04E+04	2.07E+01
	Klaranca	1.71E+05	1.29E+03	1.16E+01	3.18E+03	1.59E+01
Volovnik	Poljšakica Lože	8.43E+04	1.48E+02	6.23E+00	5.02E+03	1.97E+01
	Pergolin	7.31E+03	4.91E+01	4.30E+00	1.55E+03	1.48E+01
Lambrusca di Alessan	Vitovska Grganja	1.24E+06	4.07E+03	1.40E+01	3.76E+03	1.31E+01
	Malvasia Casorzo	7.88E+04	1.16E+03	1.03E+01	8.60E+02	9.65E+00

^aValues in parentheses are the cumulative likelihood ratios calculated with the 95% upper confidence limits for the allele frequencies.

^bX and Y are random unrelated cultivars.

^cThe identity of one of the suggested parents is assumed and the other parent is unknown.

^dThe identity of one of the suggested parents is assumed and the other parent is a close relative to the second suggested parent.