



Figure S1. Map showing Greek and Bulgarian collection sites of grapevine samples [22]. Sites are numbered according to Table S1.

Table S1. Locations and varieties of collected samples in Greece and Bulgaria.

Bulgarian location	Grape variety
1. Shishmanovo	Tamyanka, Rubin, Mavrud
2. Kolarovo	Pamid
3. Dimitrovche	Mavrud, Tamyanka, Dimyat
4. Vranya	Ruen, Shizoka Melnishkaloza, Keratsouda
5. Mitino	Shizoka Melnishkaloza
6. Starchevo	Mishej Sandanski
7. Slivnitsa	Keratsouda
8. Kzesha	Keratsouda
9. Gzadeshnitsa	Keratsouda
Greek location	Grape variety
10. Alexandroupoli	Keratsouda
11. Avdira	Pamid (also known as 'Pamidi'), Zoumiatiko
12. Soufli	Mavrud (also known as 'Mavroudi'), Bogialamas, Karnachalas
13. Thermi	Limnio, Sefka

Table S2. Information for used microsatellite markers.

Markers	Primers	Fluorescent dye	Allelic range (bp)	Polymorphism (number of different alleles)	Chromosome	T _m (°C)	Repeat motif	Reference
VvS2	F:CAGCCCGTAAATGTATCCATC R:AAATTCAAAATTCTAATCACTGG	FAM	129-148	8	11	57.9	(GA) _n	[6]
VvMD7	F:AGAGTTGCGGAGAACAGGAT R:CGAACCTTCACACGCTTGAT	FAM	232-257	9	7	57.3	(CT) _n	[7]
VvMD25	F:TTCCGTTAAAGCAAAGAAAAAGG R:TTGGATTGAAATTATTGAGGGG	HEX	243-259	4	11	55.9	(CT) _n	[8]
VvMD27	F:GTACCAGATCTGAATACATCCGTAAGT R:ACGGGTATAGAGCAAACGGTGT	HEX	175-194	8	5	61.9	(CT) _n	[8]
VrZAG47	F:GTTCTGGTCTGAATACATCCGTAAGT R:ACGGTGTGCTCTCATTGTCAATTG	TAMRA	162-181	8	5	61.9	(GA) _n	[24]
VrZAG62	F:GGTGAAATGGGCACCGAACACACGC R:CCATGTCTCCTCAGCTCTCAGC	FAM	185-204	6	7	67.9	(GA) _n	[25]
VrZAG79	F:AGATTGTGGAGGAGGGAACAAACCG R:TGCCCCCATTTCAAACTCCCTTCC	TAMRA	239-261	10	5	64.6	(GA) _n	[25]

Table S3. Pairwise F_{ST} values among Bulgarian populations. Each color represents populations of the same variety (different for each variety), coming from different producers and sampling areas. All populations of the same variety are statistically undifferentiated (pairwise tests of differentiation in FSTAT software), with their F_{ST} values being non-different from zero ($P < 0.05$). This scenario is evident, with no exception, for all the Bulgarian varieties studied.

Population	Population														
	Tamyanka1	Tamyanka2	Mavrud1	Mavrud2	Melnishkaloza1	Shizoka	Melnishkaloza2	Keratsouda1	Keratsouda2	Keratsouda3	Keratsouda4	Keratsouda5	Keratsouda6	Keratsouda7	Keratsouda8
Tamyanka1	-0.0044	0.2820	0.2517	0.3811	0.3580	0.3875	0.3807	0.3371	0.3916	0.3916	0.3525	0.3805	0.3744	0.3808	
Tamyanka2		0.3247	0.2717	0.4394	0.4241	0.4271	0.4050	0.3533	0.4321	0.4321	0.3860	0.4133	0.4125	0.4215	
Mavrud1			-0.0016	0.2892	0.2815	0.4213	0.3886	0.3309	0.4254	0.4254	0.3629	0.4015	0.4098	0.4167	
Mavrud2				0.2765	0.2543	0.3318	0.3175	0.2735	0.3358	0.3358	0.2888	0.3189	0.3199	0.3259	
Shizoka Melnishkaloza1					-0.0037	0.3910	0.3678	0.3082	0.3929	0.3929	0.3168	0.3835	0.3914	0.3938	
Shizoka Melnishkaloza2						0.3989	0.3573	0.2893	0.4008	0.4008	0.3145	0.3824	0.4026	0.4050	
Keratsouda1							0.0007	-0.0009	0.0000	0.0000	0.0002	-0.0007	0.0000	0.0000	
Keratsouda2								-0.0046	-0.0016	-0.0016	-0.0019	-0.0093	-0.0035	-0.0020	
Keratsouda3									0.0004	0.0004	-0.0134	-0.0054	-0.0080	-0.0054	
Keratsouda4										0.0000	0.0009	-0.0001	0.0000	0.0000	
Keratsouda5											0.0009	-0.0001	0.0000	0.0000	
Keratsouda6												0.0006	-0.0021	-0.0007	
Keratsouda7													-0.0033	-0.0025	
Keratsouda8														0.0000	
Keratsouda9															

Table S4. Greek (1-8) and Bulgarian (9-17) populations-varieties used in the present study. Letters G and B in parentheses stand for Greek and Bulgarian, respectively.

Population	Variety	Number of samples
Population 1	Pamid(G) (also known as 'Pamidi')	14
Population 2	Keratsouda(G)	10
Population 3	Zoumiatiko	10
Population 4	Limnio	10
Population 5	Sefka	10
Population 6	Mavrud(G) (also known as 'Mavroudi')	9
Population 7	Bogialamas	10
Population 8	Karnachalas	10
Population 9	Tamyanka	26
Population 10	Mavrud(B)	26
Population 11	Rubin	20
Population 12	Pamid(B)	8
Population 13	Dimyat	19
Population 14	Ruen	20
Population 15	Shizoka Melnishkaloza	36
Population 16	Mishej Sandanski	27
Population 17	Keratsouda(B)	119
Total		384

Table S5. Pairwise F_{ST} values between all possible pairs of the studied populations.

Population	Population																Keratsouda(B)
	Pamid(G)	Keratsouda(G)	Zoumiatiko	Limnio	Sefka	Mavrud(G)	Bogialamas	Karnachalas	Tamyanka	Mavrud(B)	Rubin	Pamid(B)	Dimyat	Ruen	Shizoka	Melnishkaloza	Mishej Sandanski
Pamid(G)	0.0000	0.4566	0.4107	0.4940	0.5047	0.4502	0.4785	0.4866	0.4298	0.3593	0.5326	-0.0040	0.4105	0.4860	0.4979	0.4449	0.2794
Keratsouda(G)		0.0000	0.4118	0.6000	0.6154	0.4913	0.5627	0.4730	0.3814	0.4139	0.4988	0.4582	0.3978	0.5957	0.5838	0.5095	0.4266
Zoumiatiko			0.0000	0.5200	0.4783	0.3374	0.5089	0.4991	0.3835	0.2871	0.5073	0.3986	0.0000	0.5241	0.5091	0.3811	0.4429
Limnio				0.0000	0.4286	0.3553	0.4086	0.3150	0.3617	0.2754	0.4931	0.4640	0.5205	0.5797	0.5828	0.4464	0.5398
Sefka					0.0000	0.3553	0.5136	0.3492	0.4132	0.2727	0.5083	0.4837	0.4783	0.5231	0.5407	0.4072	0.5407
Mavrud(G)						0.0000	0.3259	0.3208	0.2906	0.0175	0.3948	0.4057	0.3447	0.3987	0.3258	0.2693	0.4310
Bogialamas							0.0000	0.3857	0.3660	0.2600	0.5007	0.4620	0.5045	0.5527	0.5056	0.4729	0.5158
Karnachalas								0.0000	0.2761	0.2784	0.3501	0.4620	0.5052	0.4844	0.5081	0.4235	0.4940
Tamyanka									0.0000	0.2701	0.2612	0.3977	0.3969	0.3859	0.3908	0.1835	0.4205
Mavrud(B)										0.0000	0.3536	0.3192	0.2987	0.3392	0.2741	0.2267	0.3720
Rubin											0.0000	0.5107	0.5089	0.4338	0.4813	0.3924	0.4701
Pamid(B)												0.0000	0.4031	0.4541	0.4647	0.4026	0.2507
Dimyat													0.0000	0.5184	0.5002	0.3885	0.4412
Ruen														0.0000	0.2902	0.3325	0.3576
Shizoka															0.0000	0.2881	0.3469
Melnishkaloza																0.0000	0.0000
Mishej Sandanski																	0.3787
Keratsouda(B)																	0.0000

Table S6. Population differentiation analysis implemented in FSTAT 2.9.3.2 software.

Population	Population																Keratsouda(B)
	Pamid(G)	Keratsouda(G)	Zoumiatiko	Limnio	Sefka	Mavrud(G)	Bogialamas	Karnachalas	Tamyanka	Mavrud(B)	Rubin	Pamid(B)	Dimyat	Ruen	Shizoka	Melnishkaloza	Mishej Sandanski
Pamid(G)	***	***	***	***	***	***	***	***	***	***	***	NS	***	***	***	***	***
Keratsouda(G)		**	**	***	**	**	***	***	***	***	**	**	***	***	***	***	***
Zoumiatiko			***	**	**	**	***	***	***	***	***	**	NS	***	***	***	***
Limnio				**	**	**	***	***	***	***	***	**	***	***	***	***	***
Sefka					**	**	***	***	***	***	***	**	***	***	***	***	***
Mavrud(G)						**	***	***	NS	***	**	**	***	***	***	***	***
Bogialamas							**	***	***	***	***	**	***	***	***	***	***
Karnachalas								***	***	***	**	***	***	***	***	***	***
Tamyanka									***	***	***	***	***	***	***	***	***
Mavrud(B)										***	***	***	***	***	***	***	***
Rubin											***	***	***	***	***	***	***
Pamid(B)												***	***	***	***	***	**
Dimyat													***	***	***	***	***
Ruen														***	***	***	***
Shizoka															***	***	
Melnishkaloza																***	
Mishej Sandanski																	***
Keratsouda(B)																	

* $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$. NS: non-significant.