



Table S1. Archaeobotanical records of grapevine in Georgia.*

No	Fossil type	Site	Period	References
1	pollen	Gadachrili Gora	Neolithic	McGovern et al. 2017 Maghradze et al. 2019
2	pollen	Shulaveris Gora	Neolithic	McGovern et al. 2017 Maghradze et al. 2019
3	epidermis	Gadachrili Gora	Neolithic	McGovern et al. 2017 Maghradze et al. 2019
4	macrofossil	Khramis Didi Gora	Neolithic	Gorgidze & Rusishvili 1984
5	pollen	Vale 1	Early Bronze Age	Kvavadze 2004a
6	pollen	Nachivchavi	Early Bronze Age	Kvavadze 2004c
7	macrofossil	Kvatskhelebi	Early Bronze Age	Ramishvili 2001, Rusishvili 2010
8	macrofossil	Khizanaant Gora	Early Bronze Age	Schultz Motel 1988 Ramishvili 2001, Rusishvili 2010
9	pollen	Tiselis Seli Setl.	Early Bronze Age	Kvavadze et al. 2020
10	pollen	Chobareti Setl.	Early Bronze Age	Kvavadze et al. 2013 Kvavadze et al. 2020
11	pollen	Paravani Kurgan	Early Bronze Age	Kvavadze et al. 2020
12	pollen	Nachivchavebi grave 3	Early Bronze Age	Kvavadze et al. 2020
13	pollen	Kvackhelebi Setl.	Early Bronze Age	Kvavadze et al. 2020
14	pollen	Tkevlaras veli Set.	Ealy Bronze Age	Kvavadze et al. 2020
15	pollen	Aradetis Orgora Setl.	Early Bronze Age	Kvavadze et al. 2019 Kvavadze et al. 2020
16	pollen	Natsar Gora Setl.	Early Bronze Age	Kvavadze et al. 2020
17	pollen	Doglauri graivs	Early Bronze Age	Kvavadze et al. 2020
18	pollen	Bedeni Kurgans	Early Bronze Age	Kvavadze et al. 2013; Kvavadze et al. 2015; Kvavadze et al. 2020
19	pollen	Ananauri -3 Kurgan	Early Bronze Age	Kvavadze 2016, 2019 Kvavadze et al. 2020
20	pollen	Tkemplara 1,2,3	Middle Bronze Age	Kvavadze et al. 2004
21	pollen	Ai-Ilia	Middle Bronze Age	Kvavadze 2004b
22	pollen	Vale 2	Middle Bronze Age	Kvavadze 2004a
23	macrofossil	Pechori	Middle bronze Age	Bouby et al. 2020
24	macrofossil	Bedeni	Middle Bronze Age	Ramishvili 2001
25	macrofossil	Anaklia	Middle Bronze Age	Ramishvili 2001 Bouby et al. 2020
26	macrofossil	Nosiri	Middle Bronze Age	Ramishvili 2001
27	pollen	Naomari Gora	Late Bronze Age	Kvavadze 1999
28	pollen	Tetri Tskaro	Late Bronze Age	Kvavadze & Rusishvili 2003
29	pollen	Vale 3	Late Bronze Age	Kvavadze 2004a
30	macrofossil	Dedoplis Gora	Late Bronze Age	Bouby et al. 2020
31	macrofossil	Sukhumi	Iron Age	Schultz Motel 1988; Ramishvili 2001; Bouby et al. 2020
32	pollen	Vani Settl.	Classical Period	Chichinadze & Kvavadze 2013
33	pollen	Vani tomb 4	Classical Period	Chichinadze et al. 2017; 2019 Chichinadze & Kvavadze 2013
34	pollen	Pichvnari, tomb 1	Classical Period	Kvavadze & Chichinadze 2020

35	pollen	Nakalakevi Setl.	Classical Period	Chichinadze, Kvavadze 2014
36	macrofossil	Gabashvili	Iron Age	Bouby et al. 2020
37	macrofossil	Badaani	Iron Age	Bouby et al. 2020
38	macrofossil	Dighomi Room	Iron Age	Rusishvili 2010, Bouby et al. 2020
39	macrofossil	Arukhlo (Layer 4)	Iron Age	Bouby et al. 2020
40	macrofossil	Ergeta	Iron Age	Rusishvili 1990; Rusihvili, 2010; Bouby et al. 2020
41	macrofossil	Treligorebi	Iron Age	Ramishvili 2001; Bouby et al. 2020
42	macrofossil	Uplistsikhe	X-IX c. BC	Ramishvili 2001; Bouby et al. 2020
43	macrofossil	Gienos	VIII-VII c. BC	Rusishvili 1990, Rusishvili, 2010
44	pollen	Tabackuri	VII-VI c. BC	Kvavadze 2004
45	macrofossil	Dighomi	VII-VI c. BC	Schultz Motel 1988
46	macrofossil	Tsikhiagora	Hellenistic period	Zkitishvili 1995; Ramishvili 2001; Rusishvili 2010; Bouby et al. 2020
47	macrofossil	Sagarejo	III c. BC	Ramishvili 2001
48	macrofossil	Urbnisi	II-I c. BC	Ramishvili 2001
49	macrofossil	Eshera	II-I c. BC	Kvavadze & Rukhadze 1989
50	macrofossil	Dzalisi	Roman period	Maghradze et al. 2019
51	pollen	Dedoplis Gora	Roman period	Maghradze et al. 2019
52	pollen	Dedoplis Gora	1 Cent. AD	Kvavadze & Gagoshidze 2008
53	macrofossil	Urbnisi cemetery	1-300 AD	Bouby et al. 2020
54	macrofossil	Urbnisi	V-VI c. AD	Ramishvili 2001; Rusishvili 2010
55	macrofossil	Urbnisi	VII-VII c. AD	Ramishvili 2001; Rusishvili 2010
56	macrofossil	Mtskheta	Medieval Period	Ramishvili 2001
57	macrofossil	Mokva	Medieval Period	Rukhadze 1991
58	macrofossil	Duab	Medieval Period	Rukhadze 1991
59	pollen	Tkemlara 4	Medieval Period	Kvavadze & Rusishvili 2003
60	macrofossil	Zhinvali	Medieval Period	Ramishvili 2001
61	macrofossil	Rustavi	Medieval Period	Ramishvili 2001
62	macrofossil	Mlashebis Gora	Medieval Period	Ramishvili 2001
63	macrofossil	Iaghsara	Medieval Period	Ramishvili 2001
64	pollen	Tsitsamuri tomb	Medieval Period	Kvavadze et al. 2008
65	macrofossil	Gldani	Medieval Period	Maghradze et al. 2019
66	macrofossil	Lagodekhi	Medieval Period, 15 c.	Bouby et al. 2020
66	macrofossil	Tsitsamuri	Medieval Period, 15-16 cc.	Bouby et al. 2020
67	macrofossil	Borjomi	Medieval Period, 17-18 cc.	Bouby et al. 2020

*The updated table is based on the data reported by Costantini et al. (2006).

Table S2. Comparison in the data distribution of *Vitis vinifera* subsp. *sylvestris* and subsp. *sativa*, with details of sativa plants cultivated in Georgia. *Vitis vinifera* subsp. *sativa* data are already published in Rustioni et al [26] and Georgian cultivars are described in Sargolzaei et al. [33].

Variable	Quartiles																									
	Sample number			Average			Minimum			Maximum																
													25		50 - median		75									
	<i>V. sylvestris</i>	<i>V. sativa</i>		<i>V. sylvestris</i>	<i>V. sativa</i>		<i>V. sylvestris</i>	<i>V. sativa</i>		<i>V. sylvestris</i>	<i>V. sativa</i>		<i>V. sylvestris</i>	<i>V. sativa</i>		<i>V. sylvestris</i>	<i>V. sativa</i>		<i>V. sylvestris</i>	<i>V. sativa</i>						
Georgia		Subsp.	Georgia		Subsp.	Georgia		Subsp.	Georgia		Subsp.	Georgia		Subsp.	Georgia		Subsp.	Georgia		Subsp.	Georgia	Subsp.				
Berry length (mm)	2247	303	22383	8.75	14.16	15.02	4.50	9.3	5	15.1	19	37	7.80	12.9	13	8.70	14	15	9.60	15.5	17					
Berry width (mm)	2250	303	22385	8.50	13.03	14.18	4.30	9	6	14.6	17.5	29	7.60	11.6	12	8.40	13	14	9.30	14.3	16					
Length/width	2247	303	22383	1.03	1.10	1.06	0.58	0.93	0.50	1.7	1.39	3.60	0.99	1.04	1.00	1.03	1.08	1.00	1.07	1.14	1.10					
Bunch weight (g)	555	261	5737	35.50	184.46	247.76	3.10	26	10	187	641	1362	19	109	143	28	167	220	43	229	319					
Sugar content (Brix)	225	336	2162	23.88	21.51	20.8	2.70	12	10.0	29.00	28	35.0	22.8	20	19.0	24.0	21	21.0	25.7	24	23.0					
Titrateable acidity (g/l tartaric acid)	225	336	2161	9.93	7.01	6.3	5.40	3.5	0.8	19.70	13.2	22.7	8.2	6	4.7	9.5	6.8	6.0	11.8	7.8	7.4					
Berry weight (g)	225	336	2404	0.52	2.20	2.4	0.23	0.8	0.6	1.52	4	10.1	0.4	1.7	1.6	0.5	2.2	2.2	0.6	2.6	2.8					
% skin (w/w)	225	334	2368	35.96	29.63	17.0	18.22	7	3.0	112.93	54	54.0	30.0	24	11.0	33.1	29	15.0	39.5	34	21.0					
% seed (w/w)	225	336	2355	15.86	4.24	4.0	5.66	2	0.0	37.96	10	17.0	12.2	3	3.0	14.1	4	4.0	18.8	5	5.0					
1 skin weight (g)	225	334	2369	0.18	0.64	0.4	0.07	0.1	0.1	0.48	1.3	1.9	0.1	0.5	0.2	0.2	0.6	0.3	0.2	0.8	0.5					
Number of seeds/berry	225	336	2321	2.32	2.04	2.1	1.00	0.9	0.0	20.10	3.8	4.3	1.9	1.7	1.7	2.2	2	2.1	2.7	2.4	2.5					
Weight of 1 seed (mg)	225	336	2293	33.81	44.17	41.0	3.53	20	10.0	130.00	90	160.0	28.1	40	30.0	33.2	40	40.0	38.1	50	50.0					
Anthocyanins (mg/kg of grapes)	225	206	1141	1493.14	756.55	710.1	55.26	50	50.0	5831.04	3350	5350.0	698.9	350	200	1167	600	550	2106	950	1000					
Anthocyanins (mg/berry)	225	204	1138	0.66	1.45	1.4	0.05	0.1	0.1	2.49	5	8.5	0.4	0.7	0.5	0.6	1.3	1.0	0.8	2	1.9					
Anthocyanins (mg/g of skin)	225	204	1138	4.09	2.77	4.7	0.12	0.1	0.1	14.99	9.8	45.0	2.0	1.125	1.5	3.5	2.35	3.2	5.8	3.7	6.1					
Skin phenolic (mg/kg of grapes)	225	336	1739	1726.72	1182.2	1375.8	66.18	200	90.0	6001.91	3780	6590.0	700.5	720	680	1472	1030	1090	2519	1590	1800					
Skin phenolic (mg/berry)	225	336	1739	0.79	2.45	2.8	0.04	0.2	0.2	4.06	6.2	12.0	0.4	1.5	1.6	0.7	2.3	2.4	1.0	3.275	3.6					

Skin phenolic (mg/g of skin)	225	334	1735	4.72	4.34	9.1	0.18	0.5	0.3	17.83	30.6	61.4	2.2	2.3	4.5	4.3	3.7	7.3	6.4	6	11.9
Seed phenolic (mg/kg of grapes)	225	335	1724	584.58	177.70	337.0	20.76	10	10.0	5189.09	1050	4180.0	213.2	60	100	393	120	210	803	260	430
Seed phenolic (mg/berry)	225	316	1692	0.28	0.40	0.7	0.01	0.1	0.1	1.76	2.3	5.4	0.1	0.1	0.2	0.2	0.3	0.5	0.3	0.6	0.9
Seed phenolic (mg/g of seed)	225	324	1704	3.92	4.46	8.7	0.22	1	1.0	34.59	28	98.0	1.4	2	3.0	2.6	3	6.0	4.7	7	11.0
Seed phenolic (µg/seed)	225	335	1723	125.87	190.87	338.4	6.16	10	10.0	980.16	1350	5390	47	60	110	86	130	220	143	290	440
Skin phenolics (%)	225	335	1734	73.07	86.28	79.9	5.43	30	22.0	97.76	99	100.0	62.0	81	70.0	75.9	89	84.0	85.8	95	92.0
Seed phenolics (%)	225	335	1734	26.93	13.72	20.1	2.24	1	0.0	94.57	70	78.0	14.2	5	8.0	24.1	11	16.0	38.0	19	30.0
Total phenolics (mg/kg of grape)	225	335	1735	2311.3	1360.6	1708.7	241.97	250	100.0	6547.5	4200	9550.0	1004.4	850	900	1992	1200	1450	3288	1750	2200
Total phenolics (mg/berry)	225	335	1737	1.07	2.83	3.4	0.14	0.3	0.3	4.35	6.9	12.3	0.5	1.9	2.1	0.9	2.7	3.0	1.3	3.7	4.3

Table S3. Amounts (kg) of grapes vinified in vintages 2017, 2018 and 2019. The duration of alcoholic fermentation (days) is reported in brackets.

Grape	2017	2018	2019
Wild grape	10 (10)	11 (15)	25 (15)
Cabernet Sauvignon	15 (11)	9 (15)	15 (20)
Saperavi	17 (18)	18 (22)	18 (25)

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