





Wild grapevine Vitis vinifera ssp. Sylvestris Gmel. Is a typical representative of the flora of the Caucasus and Georgia among It. This plant is a lodger of almost all woody regions, most part in forests on lowlands and rivers' banks up to 1200m above sea level in Georgia. It grows sporadically on the territory of the country.





Wild grapevine in Georgia

History of wild grapevine in Georgia should be separated in two periods. 1) since the earliest period until the second part of 19 centuries, when there was the best conditions for growing of this plant here. 2) Since 60 of 19 century until today when fungal diseases and Phylloxera and plus expanded human activities, destroyed spontaneous development of wild grapevine populations.



History

The first researcher who started investigation and made systematization of wild grapevine of Georgia was Fr. A. Kollenati (1846). Revaz Ramishvili investigated wildly growing grapevine of Georgia in the second half of 20 century. He has organized research expeditions almost in all regions of the country and collected about 400 genotypes in a field collection. Based on investigation of the XX century a map for spreading of wild grapevine in Georgia in its 8 main centers of concentration has been singled out

Diversity

Investigation and conservation of wild grapevine V. vinifera ssp sylvestris Gmel.



Figure 1. Location of the discovered population in Georgia (the maps has been prepared by N. Kvaliashvili)









Since 2014 started establishment of field collection of wild grape, In which we started to accumulated discovered in nature genotypes. Recently we have more than 70 samples in it originated different part of our country.

Description: 41 genotypes were described by ampelographic methods and the ampelographic cards were produces in Saguramo collection during 2018-2022.



Wild grapevine in Georgia



- The aim of the research was studying of the wild grapevine accessions of Georgia origin in the Jighaura field collection by using methods of ampelography, biochemistry, and agronomy with specific tasks.
- It was included 41 accessions of wild grapevine in this study. These accessions represent 20 populations from Eastern and Western parts of Georgia. The accessions were discovered in Georgia during expedition of 2003 -2013.

 Based on discovered plants it was established the first set of grafted field collection in Jighaura in 2014. The genotypes included in this study were selected from this collection. Each accession in the colletion is represented with 1-6 plants.

OIV068 Mature leaf: number of lobes



The summarized ampelographic description of the studied accessions of wild grapevine is provided. It demonstrated that 8 descriptors are homogenous and other are heterogeneous

OIV084 Mature leaf: density of prostrate hairs between main veins on lower side of blade



none or very low = low = medium = high = very high

The shape of the leaf is mostly wedgeshaped, rarely pentagonal. The leaf is fiveor three-lobed

Ampelography

The underside of the leaf mostly has little or no hair between main veins.

OIV087 Mature leaf: density of erect hairs on main veins on lower side of blade



none or very low

OIV067 Mature leaf: shape of blade



cordate vedge-shaped pentagonal circular kidney-shaped



Bunch to density, we find 4 very loose, 13 loose, and 5 medium.

OIV231 Berry: intensity of flesh anthocyanin coloration



none or very weak weak medium strong very strong





Ampelography

Intensity of flesh anthocyanin coloration in Berry were: Anthocyanin coloration is absent or very weak (3 samples), weak (6), medium (9) and strong







Eno-carpology

The number of seeds per berry was similar among the subspecies, with a slightly larger number in the *subsp*. *Sylvestris*. Nevertheless, despite the seed weight being generally lower in subsp. *sylvestris*, the contribution of seed to the total berry weight was higher in the *subsp*. sylvestris due to the smaller berries with less pulp. The *Vitis vinifera subsp*. *sylvestris* musts were more concentrated than *Vitis vinifera subsp*. *sativa* in both sugars and acids.



The grapes of *Vitis vinifera subsp. sylvestris* had a higher concentration in anthocyanins than *Vitis vinifera subsp. sativa*. However, this is mainly due to the carpological features of the grapes, with higher proportions of pigmented skins in *subsp. sylvestris*. In fact, the accumulation of pigments in the skin tissue was very similar among the two subspecies and, thus, a small *sylvestris* berry had a lower amount of anthocyanins , having a The grapes of *Vitis vinifera subsp. sylvestris* had a higher concentration in seed phenolics than *Vitis vinifera subsp*. sativa, due to the higher seed percentage of the Nevertheless, the higher skin percentage of the berry weight ensured a slightly higher phenolic concentration in *sylvestris* grapes In the past years, the genetic analysis of 23 forms of wild vines was done by the joint work of Georgia and different countries (Italy, Spain, and China). In 2023, 17 samples collected from nature were prepared for analysis (extraction was done). We also took 28 samples from the collection

Genetic research

In 2015, De Lorenzis did a genetic study of Georgian vines, which included 26 wild vine forms. **Research in progress**

Study of genetic variability in *Vitis vinifera L*. germaplasm by highthroughput Vitis 18kSNP array: the case of Georgian Gentric resources. De Lorenzis et al. (2015)

De Lorenzis et al. BMC Plant Biology (2015) 15:154



Diversity

Investigation of Wild grapevine V. vinifera ssp sylvestris Gmel.



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Wine



Color: dark cherry;

Aromas stand out: forest fruits, dried herbs, spices, berries, leather and black pepper;

Aromas weak: strawberry, vanilla and flower tones.

Tasting characteristics: high acidity, astringency, rough tannins, cheerful, lingering taste, minerality. It is inferior to Saperva and Cabernet Sauvignon.

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Number of Pages: 388

Language: English

WILD GRAPEVINE IN GEORGIA

Multidisciplinary Comparative Research to Unravel the Mystery of its Domestication



These books represents an anthology of research and popularization works publishes in recent years on the theme of the wild grapevine in Georgia in the South Caucasus region Year of Publication: 2022 Number of Pages: 166 Language: Georgia

კრიკინა ვაზი გავრცელება საქართველოში და კვლევის თანამედროვე ასპექტები





შოთა რუსთაველის საქართველოს ეროვნული სამეცნიერო ფონდი



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BATUMI 01	27395	GE0038-W2014-030	BATUMI 01				
DELISI 01	27388	GE0038-W2014-038	DELISI 01				
DIGHOMI 01	27389	GE0038-W2014-028	DIGHOMI 01				
KVETARI 19	27396	GE0038-W2016-046	KVETARI 19				
NAGHOMARI 01	27394	GE0038-W2014-047	NAGHOMARI 01				
NAKHIDURI 14	27393	GEO038-W2014-015	NAKHIDURI 14				
NINOTSMINDA 09	27392	GE0038-W2014-001	NINOTSMINDA 09				
SYLVESTRIS ASURETULI 01	27347	GE0038-W2014-021	ASURETI 01				
SYLVESTRIS BAGICHALA 04/05	27349	GE0038-W2014-007	SYLVESTRIS BAGICHALA 04/05				
SYLVESTRIS BAGICHALA 07	27348	GE0038-W2014-008	BAGICHALA 07				
SYLVESTRIS BAGICHALA 12	27350	GE0038-W2014-010	BAGICHALA 12				
SYLVESTRIS BARISAKHOS GADASAKHVEVI	27351	GE0038-W2014-031	BARISAKHOS GADASAKHVEVI				
SYLVESTRIS CHACHKHRIALA 01	27352	GE0038-W2014-034	CHACHKHRIALA 01				
SYLVESTRIS CHQUMI 02	27353	GE0038-W2014-049	CHQUMI 02				
SYLVESTRIS CHQUMI 03	27354	GE0038-W2014-052	CHQUMI 03				
SYLVESTRIS CHQUMI 04	27355	GE0038-W2014-040	CHQUMI 04				
SYLVESTRIS CHQUMI 06	27356	GE0038-W2014-045	CHQUMI 06				
SYLVESTRIS DELISI 06	27357	GEO038-W2014-009	DELISI 06				
SYLVESTRIS ENAGETI 01	27358	GEO038-W2014-033	ENAGETI 01				
SYLVESTRIS KVETARI 04	27359	GE0038-W2014-050	KVETARI 04				
SYLVESTRIS KVETARI 05 (2)	27360	GE0038-W2014-044	KVETARI 05 (2)				
SYLVESTRIS LAGODEKHI (THE 60TH OUARTER) 03	27361	GE0038-W2014-013	LAGODEKHI (THE 60TH OUARTER) 03				

Remarks to accession number and accession name

Vitis International Variety Catalogue VIVC

- Saguramo collection (GEO38
-) 70 samples
- Shumi winery collection(GEO36
-) 10 samples







GEO38

Vitis vinifera ssp sativa DC.

Vitis vinifera ssp silvestris Gmel.



Thanks for your attention