Conservation and sustainable use of grapevine genetic resources in the Caucasus and Northern Black Sea region

Fifth Project Meeting
Kuban State Agrarian University
Krasnodar, Russian Federation
15-17 October 2007

Preliminary publication of the project database via the Vitis International Variety Catalogue (VIVC)

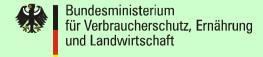
Evaluation of the project database

Erika Maul

Bundesanstalt für Züchtungsforschung an Kulturpflanzen, Institut für Rebenzüchtug Geilweilerhof, 76833 Siebeldingen - Germany

e-mail: e.maul@bafz.de





Remarks about the two *Vitis* databases:

European Vitis Database (since 1997) http://www.genres.de/eccdb/vitis

Inventory of 18 European grapevine collections.

• Each accession of the 18 European grapevine collections is registered and can be identified by its unique **accession number**, to which descriptor data, photos and SSR-marker data are assigned.

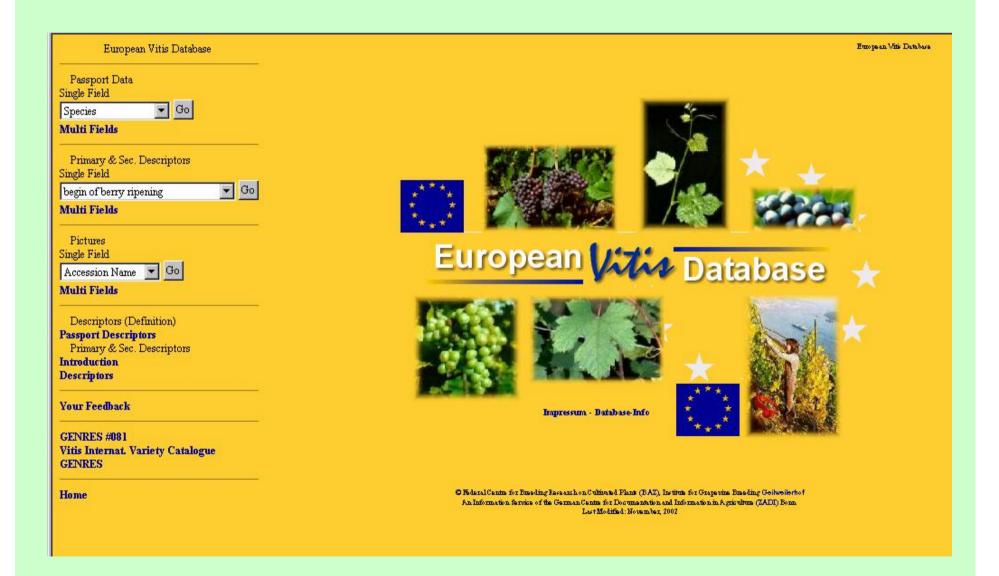
Vitis International Variety Catalogue (since 1983) http://www.vivc.bafz.de

Inventory of grapevine species, cultivars and breeding lines which are named in literature and/or occurring in grapevine collections.

• Registered are about 22.000 **prime names** of Vitis species, cultivars and breeding lines to which information on passport data, descriptor data, photos, etc. are assigned.

The European Vitis database:

(http://www.dainet.de/eccdb/vitis)





Vitis International Variety Catalogue (VIVC)

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Erika Maul (author of correspondence), Reinhard Töpfer, Rudolf Eibach
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Search criterion : ARMENIA Search result: 1 (1 -- 1)

| First | Last |

Institute code	Institute
ARM011	International Academy of Viticulture and Wine Making 375002 Yerevan

| First | Last |

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Vitis International Variety
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Accessions hold by the institution

Search criterion : ARM011

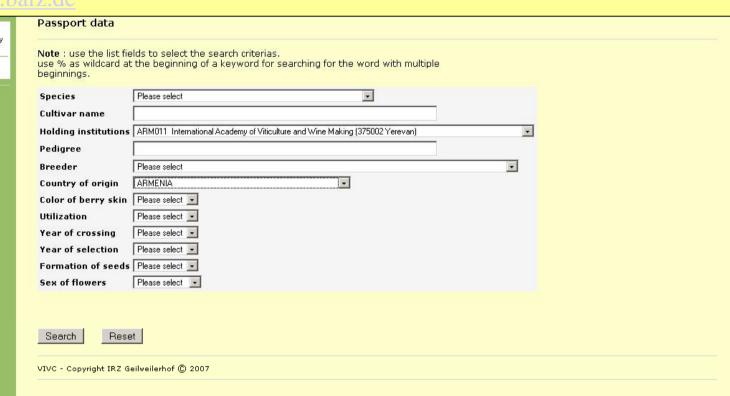
Search result: 133 (1 -- 100) > 133 Accessions / 67 Prime names

| First | Next | Last |

Prime name	Accession name	Accession number	Trueness to type
AIGEZARD	AIGEZARD	ARM011-27	
AIGEZARD	AIGEZARD	ARM011-XII-23-30	
AIGEZARD	AIGEZARD	ARM011-27-43-44	
AIGEZARD	AIGEZARD	ARM011-IV-49-94	
ANAHIT	ANAHIT	ARM011-VI-20-23	
ANUSH	ANUSH	ARM011-VII-12(1)	
ANUSH	ANUSH	ARM011-VII-12(11-20)	
ANUSHAYUT	ANUSHAHYUT	ARM011-FR-1-2	
ARAGATSI	ARAGATSI	ARM011-27-29-30	
ARAKSENI BELYI	SPITAK ARAKSENI	ARM011-49-59	
ARAKSENI CHERNYI	SEV ARAKSENI	ARM011-5	
ARARATI	ARARATI	ARM011-2-37	
ARAZI	ARAZI	ARM011-XI-18-20	
ARAZI	ARAZI	ARM011-VII-39(41-51)	
ARAZI	ARAZI	ARM011-IX-8	
ARAZI	ARAZI	ARM011-VII-26(26-50)	
ARENI CHERNYI	ARENI	ARM011-3-17	
AREVAR	AREVAR	ARM011-27-64-65	
AREVAR	AREVAR	ARM011-4(47-78)	
AREVSHAT	AREVSHAT	ARM011-29-30	
AREVSHAT	AREVSHAT	ARM011-XII-18-22	
AREVSHAT	AREVSHAT	ARM011-III-6-9	
AREVSHAT	AREVSHAT	ARM011-27-41-42	
AREVSHAT	AREVSHAT	ARM011-VII-11	
ARMAVIR	ARMAVIR	ARM011-XI-11-14	
ARMAVIR	ARMAVIR	ARM011-XI-28-31	
ARMAVIR	ARMAVIR	ARM011-VII-27(1-10)	
ARMENIA	ARMENIA	ARM011-27-23-24	
ARMENIA	ARMENIA	ARM011-36	
ARPA	ARPA	ARM011-XI-26-27	
ARTASHATI KARMIR	ARTASHATY KARMIR	ARM011-FR-15-18	
ARTASHATI KARMIR	ARTASHATY KARMIR	ARM011-21-1-48	
ARTASHATI KARMIR	ARTASHATY KARMIR	ARM011-XI-41-53	
ASHTARAKI	ASHTARAKI	ARM011-XI-55-56	
ASKERI	NAZELI	ARM011-4(1-25)	
AZATENI	AZATENI	ARM011-22	
AZATENI	AZATENI	ARM011-VII-35	
BERKANUSH	BERKANUSH	ARM011-VII-29	
BERKARAT	BERKARAT	ARM011-V-22-31	









After intensive communication on cultivar identity (diverse passport data, berry color and others) we count:

- Total number of accessions = 2654
- Total number of different cultivars = 1283
- From the 1283 different cultivars, $\frac{3}{4}$ (= 952 cultivars) seem to exist only in the project partners collections
- The remaining ¼ of the 1283 different cultivars exist mainly in grapevine collections of Eastern European countries

		i		
	no of accessions maintained in the national grapevine collections	no of cultivars maintained in the national grapevine collections	no of autochthonous cultivars of the corresponding country existing in the 6 project partners collections	no of autochthonous cultivars maintained in the corresponding country
ARM011	97	67	135	63
AZE007	428	412	295	294
GEO014, GEO015, GEO017, GEO018, GEO019	147,40,255,181,255	390	460	388
MDA004	435	297	56	40
RUS 02	462	435	212	101
UKR050	353	291	125	83
	Total: 2654	Total: 1283	Total: 1283	Total: 869

Differences are due to:

- Status of the accession was not clear (several locations in the collection were considered as distinct accessions)
- Accessions had not been added because a new code had been given
- Country of origin is registered in the VIVC in a different way

If several locations were given for one accession, they were considered as distinct accessions.

ACCENAME(orig)	Institute	INSTCODE	
ARMAVIR	NEB	ARM011	plot VII, lines 27; plot XI, lines 11-14, 28-31
SAPERAVI	NEB-Nalbandian experimental branch - Nalbandyan (Armavir region)	ARM011	plot VI, line 7, plot XI, line10
Галабура	OPH "Anapa" - Anapa	RUS 02	2-28(13-14), 3-2(67-69), 4-5(111-112)
Бэнди	OPH "Anapa" - Anapa	RUS 02	2-18(27-28), 1-42(5)

Accessions had not been added because a new code had been given

ACCENUMB	ACCENAME englisch	Standort	ACQDATE	INSTCODE
VIT-41	AZERI	Line 30 plot 1-24	1974	AZE007
VIT-70	BEHRELI	Line 14 plot 11-34	1974	AZE007
VIT-112	DEVE GYOZYU	Line 14 plot 18-23	2002	AZE007

Recommendation:

- An accession code number independent from the location number in the grapevine collection has to be created.
- A unique accession number is a prerequisite for the accessions registered in the European *Vitis* Database
- The institute code should be a constituent of it like: "AZE007-VIT-41"

Conclusion:

- The autochthonous varieties of the Caucasus and Northern Black Sea region are concentrated nearly 100 % in the collections of the Eastern European, respectively the six participating project countries.
- Being genetically different from Western European grapevine germplasm their survival has to be ensured at least by double maintenance.
- In that context the VIVC will soon offer the possibility to search for cultivars which are maintained in only one or in two grapevine collections. Hence for rare cultivars double conservation could be organised.