



# European *Vitis* Database – Handbook

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# 1 Introduction

The European *Vitis* Database encompasses 3 access levels: **public access**, **all partner access** and **partner specific access**.

Via **Public access** the user has direct access to the data of grapevine accessions existing in European grapevine collections.

Via **Login** (username and password) partners of the European *Vitis* Database enter the partner access level which is subdivided in **all partner access** and **partner specific access**. This is the working area for the partners of GrapeGen06 respectively Cost action FA1003. Here the upload and download options are located.

From the **partner specific access** level data can be imported by holding collections themselves. Import programs have been created for data uploading of MCPDs, SSR-markers, characterization, virus, *Vitis sylvestris* populations and photos.

## All partner access:

Particularity: access to the data recorded in GrapeGen06 work packages I to V

## Partner specific access:

Particularities: import modules for MCPD data, characterization and SSR-marker data, photos and virus data.

## 1.1 General remarks

The quality of long term germplasm preservation and management depends on several factors like maintenance in collections, sanitary conditions and selection of valuable and unique genotypes. A prerequisite for the latter is trueness to type. Hence in the European *Vitis* Database high priority has been attributed to the accurate documentation of criteria related to trueness to type. Two documents explaining respective features are to be found at “Descriptors/file formats” (see chapter 2.9), section “A: Multi Crop Passport Descriptors adopted for *Vitis* specific purposes”. All partners of the European *Vitis* Database are encouraged to adhere to the therein established requirements.

In the European *Vitis* Database on all generated tables links to further specifications exist. If you pass over the table with your mouse and the writing appears blue, via mouse click you attain further information.

## 2 Description of search tools on the public access level

2.1 *Quick search* offers a rapid search for 6 MCPD’s: species, subtaxa, subtaxa authority, accession name, country of origin of the variety and holding institution.

**Public access | Quick search**

**Note:** use the list fields to select the search criteria. Use % as wildcard at the beginning of a keyword for searching for the word with multiple beginnings.

[Download \(or view\):](#)

- Guidelines for the compilation of MCPD descriptors related to 'trueness to type'.
- What is 'trueness to type'.

Genus, species:

Subtaxa:

Subtaxa authority:

Accession name:

Country of origin of the variety: BULGARIA

Holding institution:

Search Reset

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Figure 1: Search result for accessions with country of origin of the variety = Bulgaria

**Public access | Quick search**

Search criteria : BULGARIA  
Search result : 111 ( 1 -- 100 )

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Accession name	Color of berry skin	Variety name	Trueness to type of the variety	Variety number VIVC	Remarks to the accession name	Holding institution	Accession number (access to data)	Species	Subtaxa	Country of origin of the variety
AHELOI	green		not checked	15821		DEU098	DEU098-1991-193	VITIS VINIFERA LINNE	SUBSP. VINIFERA	BULGARIA
Apyrène de Ruse	green	Apyrène de Roussé	yes	16237		FRA139	FRA139-2990Mtp1	VITIS VINIFERA LINNE	SUBSP. VINIFERA	BULGARIA
Boba Hasan		Boba Hasan	yes			FRA139	FRA139-0Mtp1536	VITIS VINIFERA LINNE	SUBSP. VINIFERA	BULGARIA
BOUQUET	black		not checked	1608		DEU098	DEU098-1991-137	VITIS VINIFERA LINNE	SUBSP. VINIFERA	BULGARIA
Ceaus x Bolgar 2	green	Ceaus x Bolgar 2	not checked			CZE041	CZE041-24V0100175	VITIS VINIFERA LINNE	SUBSP. VINIFERA	BULGARIA
CERKOVSKO ZLTO	green	CERKOVSKO ZLTO	not checked	2392		DEU098	DEU098-1990-006	VITIS VINIFERA LINNE	SUBSP. VINIFERA	BULGARIA
Cerven septenvrijski	rose	Cerven septenvrijski	not checked			CZE041	CZE041-24V0100275	VITIS VINIFERA LINNE	SUBSP. VINIFERA	BULGARIA
Chevka	black	Chevka	yes			FRA139	FRA139-0Mtp1539	VITIS VINIFERA LINNE	SUBSP. VINIFERA	BULGARIA
Chiroka melnichka	black	Chiroka Melnichka = Melnik	yes	11838		FRA139	FRA139-2771Mtp1	VITIS VINIFERA LINNE	SUBSP. VINIFERA	BULGARIA
Dimiat	green	Dimiat	yes	5716		FRA139	FRA139-1666Mtp1	VITIS VINIFERA LINNE	SUBSP. VINIFERA	BULGARIA
DIMIAT	green					ITA388	ITA388-858	VITIS VINIFERA LINNE	SUBSP. VINIFERA	BULGARIA
DIMJAT	green		not checked	5716		ESP080	ESP080-BGVCAM1811	VITIS VINIFERA LINNE		BULGARIA

Figure 2: Search for accessions with an accession name starting with “Alfrocheiro”

**Public access | Quick search**

**Note:** use the list fields to select the search criteria. Use % as wildcard at the beginning of a keyword for searching for the word with multiple beginnings.

Download (or view):

- Guidelines for the compilation of MCPD descriptors related to 'trueness to type'.
- What is 'trueness to type'.

Genus, species:

Subtaxa:

Subtaxa authority:

Accession name:

Country of origin of the variety:

Holding institution:

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Figure 3: Search result for accession names beginning with Alfrocheiro”

**Public access | Quick search**

Search criteria : alfrocheiro  
Search result : 5 ( 1 -- 5 )

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| [First](#) | [Last](#) |

Accession name	Color of berry skin	Variety name	Trueness to type of the variety	Variety number	Holding institution	Accession number (access to data)	Species	Subtaxa	Country of origin of the variety
ALFROCHEIRO	black			277	ESP080	ESP080-BGVCAM1192	VITIS VINIFERA LINNÉ		PORTUGAL
Alfrocheiro	black	Alfrocheiro preto	yes	277	FRA139	FRA139-50Mtp1	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	PORTUGAL
Alfrocheiro preto	black				ESP074	P04#7326	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	SPAIN
ALFROCHEIRO BRANCO	green	DOURADINHA			PRT051	PRT051-51610			PORTUGAL
ALFROCHEIRO PRETO	black	ALFROCHEIRO	yes		synonym	PRT051-PRT051-52003			PORTUGAL

[Back to search form](#) [Previous page](#)

With a click on the accession name figure 4 with MCPD data pops up.

Figure 4: MCPD data of the accession “Alfrocheiro preto”

**MCPD - Multi Crop Passport Descriptor Data**

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**Common passport descriptors :**

Accession name	ALFROCHEIRO PRETO
Color of berry skin	black
Variety name	ALFROCHEIRO
Accession number	PRT051-52003
Acquisition date	1988
Holding institution	PRT051
Genus, species	VITIS VINIFERA LINNÉ
Subtaxa	SUBSP. VINIFERA
Subtaxa authority	
Country of origin of the variety	PORTUGAL
Breeder	
Pedigree	
Year of breeding	
Use (crop name)	WINE GRAPE
Donor institute code	PRT079
Decoded breeding institute	
Decoded donor institute	
MLS Status	
AEGIS Status	
Photos	4
Trueness to type	yes
Remarks to the accession name	
Questionable variety	
Characterisation data	2000   2001   All
Virus status	
Variety number /IVC	
Additional information	

A click on the photo number generates a photo gallery of the accession, see figure 5.

With a click on the year of characterisation or “All” the recorded notations are listed, see figure 6.

Figure 5: Photo gallery of the accession “Alfrocheiro preto”

The screenshot shows a web interface for the 'Alfrocheiro preto' accession. On the left is a navigation menu with options like 'Users handbook', 'SQL table scheme', 'Public access' (with sub-options like 'Quick search', 'Advanced search', 'Photo search', etc.), 'Descriptors/file formats', 'Institute codes', 'Important links', 'Contact', 'Disclaimer', 'Varieties registered in Europe', and 'Home page'. The main content area displays three categories of photos: 'Shoot tip', 'Mature leaf', and 'Bunch'. The 'Shoot tip' category shows a close-up of a young shoot. The 'Mature leaf' category shows two large, lobed green leaves. The 'Bunch' category shows a cluster of dark grapes on a stem. Logos for ECP/GR, GrapeGen6, and JKI are visible at the bottom.

Figure 6: Characterisation data of the accession “Alfrocheiro preto”

The screenshot shows the 'Characterisation data' page for 'Alfrocheiro preto'. It includes a navigation menu on the left and a main content area. The 'Common passport descriptors' section lists fields like 'Accession name', 'Accession number', 'Variety name', etc. A callout box explains the notation levels for descriptor OIV 001: 1=closed, 3=half open, 5=fully open. Below is the 'All descriptors data' section, which contains a table of quantitative descriptors.

OIV Code	Descriptor	2000		2001	
		Notation	Notation text	Notation	Notation text
OIV 001	Young shoot: opening of the shoot tip	5	fully open	5	fully open
OIV 003	Young shoot: intensity of anthocyanin coloration on prostrate hairs of the shoot tip	5	medium	5	medium
OIV 004	Young shoot: density of prostrate hairs on the shoot tip	7	high	7	high
OIV 006	Shoot: attitude (before tying)	3	semi-erect	3	semi-erect
OIV 007	Shoot: color of the dorsal side of internodes	1	green	1	green
OIV 008	Shoot: color of the ventral side of internodes	1	green	1	green

2.2 *Advanced search* encompasses two data types:  
**A: Passport descriptors** and **B: Characterisation descriptors**.

The screenshot shows the 'Advanced search' page of the ECP GR database. On the left is a navigation menu with options like 'Quick search', 'Advanced search', 'Photo search', etc. The main content area is divided into two sections: 'A: Passport descriptors' and 'B: Characterisation descriptors'. Callouts provide specific search instructions:

- search by 23 MCPD**: Points to the 'Passport descriptors encompassing collected material, biological status, germplasm storage, etc.' option.
- search by 39MCPD**: Points to the 'All descriptors' option.
- search for accessions with matching notations for up to 14 characteristics, see the figure 7-9 below.**: Points to the 'Priority descriptors' option.
- search for accessions with matching notations for up to 48 characteristics.**: Points to the 'Descriptors used in GrapetGen06' option.
- search for accessions with matching notations for up to 68 characteristics.**: Points to the 'All descriptors' option.

At the bottom of the page, logos for 'Grape Gen06 Genetic Resources' and 'JKI - Julius Kühn-Institut' are visible.

Figure 7: Search for accessions with specific characteristics, e.g. OIV 001 = 5.

This screenshot shows the 'Priority descriptors' section of the search interface. It includes a 'Note' about 'Quantitative descriptors' and two tables of descriptors.

**Note: Quantitative descriptors:**

- To search for a range: use the lower and the upper value drop down list to select the desired expression level range.
- To search for a definite value: the same expression level has to be selected in the lower and the upper value drop down list.

*Qualitative descriptors:* two expression levels can be searched at once.

Priority descriptors			
Quantitative descriptors			
OIV Code	Descriptor	lower value	upper value
OIV 001	Young shoot: opening of the shoot tip	5	
OIV 004	Young shoot: density of prostrate hairs on the shoot tip	5	5
OIV 068	Mature leaf: number of lobes		
OIV 070	Mature leaf: area of anthocyanin coloration of main veins on upper side of blade		
OIV 079	Mature leaf: degree of opening / overlapping of petiole sinus		
OIV 084	Mature leaf: density of prostrate hairs between main veins on lower side of blade		
OIV 087	Mature leaf: density of erect hairs on main veins on lower side of blade		

Qualitative descriptors			
OIV Code	Descriptor	Option1 value	Option2 value
OIV 016	Shoot: number of consecutive tendrils		
OIV 051	Young leaf: color of upper side of blade (4th leaf)		
OIV 067	Mature leaf: shape of blade		
OIV 076	Mature leaf: shape of teeth		
OIV 081-2	Mature leaf: petiole sinus base limited by vein		
OIV 223	Berry: shape		

Figure 8: 233 accessions are matching the entered notation values.

European Cooperative Programme for Plant Genetic Resources  
ECP GR

Users handbook  
SQL table scheme

Public access

- Quick search
- Advanced search
- Photo search
- Characterisation data
- SSR-marker data
- Virus data
- Catalogue of varieties
- On farm maintenance

Descriptors/file formats  
Institute codes  
Important links  
Contact  
Disclaimer

Varieties registered in Europe

Home page

Public access | Advanced search

Search criteria :

- OIV 001 low value : 5
- OIV 004 low value : 5
- OIV 004 upper value : 5
- OIV 051 Option1 value : 1

Search result : 233 ( 1 -- 100 )

[Back to search form](#) [Previous page](#)

| [First](#) | [Next](#) | [Last](#) |

Accession name	Color of berry skin	Variety name	Holding institution	Accession number (access to ampelographic data)	Country of origin of the variety	Trueness to type	Year of description
1527-1-EM	green	1527-1-EM	CZE041	CZE041-24V0130047	FRANCE	not checked	2007-2009
1540-51-EM	green	1540 - 51 - EM	CZE041	CZE041-24V0130050	FRANCE	not checked	2007-2009
34 - EM FDEY( BER.x RIP.)			GRC010	P07#B-7			1999
AGASFARK	black		HUN045	HUN045-49			2010
Airén	green		ESP074	P04#9184	SPAIN		1999
Albariño	green		ESP074	P04#12048	SPAIN		2001
Alipora	green		GRC010	P07#B-21	GREECE	yes	2000
ALVADURÃO	green	ALVADURÃO	PRT051	PRT051-52114	PORTUGAL	yes	2008
Aubun	black	Aubun	FRA139	FRA139-49Mtp14	FRANCE	yes	2001
Augster			AUT024	AUTXX01-Leth-10			
Avanà	black	Avanà	ITA360	ITA360-144	ITALY	yes	2007
Avarenchetto	black		ITA360	ITA360-215	ITALY	no reference	2009
BAKATOR, PIROS TUDOSZINU *	rose		HUN045	HUN045-65			2010
BANATI RIZLING	green		HUN045	HUN045-83			2010
Barbera 'd Davi	black	Barbera 'd Davi	ITA360	ITA360-179	ITALY	yes	2008

Access to ampelographic data via the accession number

Figure 9: Characterisation data of the accession “Aubun”

European Cooperative Programme for Plant Genetic Resources  
ECP GR

Users handbook  
SQL table scheme

Public access

- Quick search
- Advanced search
- Photo search
- Characterisation data
- SSR-marker data
- Virus data
- Catalogue of varieties
- On farm maintenance

Descriptors/file formats  
Institute codes  
Important links  
Contact  
Disclaimer

Varieties registered in Europe

Home page

Ampelographic data

[Back to search form](#) [Previous page](#)

Common passport descriptors	
Accession name	Aubun
Accession number	FRA139-49Mtp14
Variety name	Aubun
Color of berry skin	black
Genus, species	VITIS VINIFERA LINNÉ
Country of origin of the variety	FRANCE
Use (crop name)	WINE GRAPE
Holding institution	FRA139
Year of description	2001

Ampelographic data

Quantitative descriptors			
OIV Code	Descriptor	Notation	Notation text
OIV 001	Young shoot: opening of the shoot tip	5	fully open
OIV 003	Young shoot: intensity of anthocyanin coloration on prostrate hairs of the shoot tip	3	low
OIV 004	Young shoot: density of prostrate hairs on the shoot tip	5	medium
OIV 006	Shoot: attitude (before tying)	1	erect
OIV 007	Shoot: color of the dorsal side of internodes	2	green and red
OIV 008	Shoot: color of the ventral side of internodes	1	green
OIV 015-1	Shoot: distribution of anthocyanin coloration on the bud scales		
OIV 015-2	Shoot: intensity of anthocyanin coloration on the bud scales	1	none or very weak
OIV 053	Young leaf: density of prostrate hairs between main veins on lower side of blade (4th leaf)	1	none or very low

## 2.3 Photo search provides photos from the described accessions.

**Public access | Photo search**

**Note:** use the list fields to select the search criteria. Use % as wildcard at the beginning of a keyword for searching for the word with multiple beginnings.

Accession name:

Variety name:

Variety number VIVC:

Accession number:

Origin of the photo:

Part of the plant: Bunch

Search Reset

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Figure 10: Of 1181 accessions photos from bunches are available

**Public access | Photo search**

Search criterion: Bunch  
Search result: 1181 ( 1 -- 100 )

Accession name	Color of berry skin	Variety name	True to type of the variety	Items VIVC	Accession name	Institution (access to data)	Photo	Part of the plant
ABELLO	green	Sangiovese forte	yes		ITA412	ITA412-SF131		Bunch
Admirable de Courtiller	green	Admirable de Courtiller	yes	68	FRA139	FRA139-814Hp1		Bunch
AGHBIJ	black	AGHBIZH	97	GE0014	GE0014-3-19B			Bunch
AGHEDENE	green				ITA388p	ITA388p-ersaAGH		Bunch

Figure 11: Bunch of the accession “Admirable de Courtiller”

**MCPD - Multi Crop Passport Descriptor Data**

Back to search form Previous page

Zoom+ Zoom-

Please note: if photos are not displayed, kindly requested to quote the source.

Accession name: Admirable de Courtiller  
Accession number: FRA139-814Hp1  
Variety name: Admirable de Courtiller  
Origin of the picture: INRA - Unité Expérimentale du Domaine de Vassal & Montpellier SupAgro 34200 Montpellier France

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2.4 *Characterisation* data leads to the ampelographic data of all described accessions and offers a delimited search as well.

The screenshot shows the 'Public access | Characterisation data' section of the ECP/GR database. On the left is a navigation menu with items like 'Users handbook', 'SQL table scheme', 'Public access', 'Quick search', 'Advanced search', 'Photo search', 'Characterisation data', 'SSR-marker data', 'Virus data', 'Catalogue of varieties', 'On farm maintenance', 'Descriptors/file formats', 'Institute codes', 'Important links', 'Contact', 'Disclaimer', 'Varieties registered in Europe', and 'Home page'. The main content area has two sections: 'A : Listing of all accessions' with a checkbox for 'Characterisation data of all accessions described.' and 'B : Specific search' with a note and search criteria fields for 'Accession name', 'Variety name', 'Variety number VIVC', 'Accession number', 'Year of description', and 'Origin of the data'. A callout box points to the checkbox in section A, stating: 'A click on the check box generates a list of all the described accessions to be found in the database, see figure 12.' Below the search fields are 'Search' and 'Reset' buttons.

Figure 12: At the moment (February, 2012) the database encompasses 2748 descriptions. Some accessions have been described twice. Access to ampelographic data and photos is described in figures 4-6 and 8.

This screenshot shows the search results page for 'all accessions', displaying 2748 results. The search criteria are 'all accessions' and the results are numbered 1 to 100. Navigation links include 'Back to search form' and 'Previous page'. Below the navigation are 'First', 'Next', and 'Last' buttons. The main content is a table with the following columns: 'Accession name', 'Color of berry skin', 'Variety name', 'Trueness to type of the variety', 'Variety number VIVC', 'Remarks to the accession name', 'Holding institution', 'Accession number (access to ampelographic data)', 'Species', 'Subtaxa', 'Country of origin of the variety', and 'Year of description'. The table lists several accessions, including 1527-1-EM, 1540-51-EM, 1624-42, 32-B-8, 34-EM FDEY( BER.x RIP.) 420 A, ABELLO, ABENDROETE, ABENDROETE, Acini piccoli, and Admirable de...

Accession name	Color of berry skin	Variety name	Trueness to type of the variety	Variety number VIVC	Remarks to the accession name	Holding institution	Accession number (access to ampelographic data)	Species	Subtaxa	Country of origin of the variety	Year of description
1527-1-EM	green	1527-1-EM	not checked			CZE041	CZE041-24V0130047	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	FRANCE	2007-2009
1540-51-EM	green	1540 - 51 - EM	not checked			CZE041	CZE041-24V0130050	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	FRANCE	2007-2009
1624-42	green	1624 - 42	not checked			CZE041	CZE041-24V0130051	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	FRANCE	2007-2009
32-B-8	green	32 - B - 8	not checked			CZE041	CZE041-24V0130052	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		2007-2009
34 - EM FDEY( BER.x RIP.) 420 A						GRC010	P07#B-7				1999
						GRC010	P07#B-4				1999
ABELLO	green		no reference			ITA388	ITA388-G001	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	GREECE	2007
ABENDROETE	green	AROMRIESLING	yes	637		DEU098	DEU098-1980-117	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	FRANCE	2000
ABENDROETE	green	AROMRIESLING	yes	637		DEU098	DEU098-1980-117	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	FRANCE	2001
Acini piccoli	black	Travisana nera	yes		misnomer	ITA360	ITA360-516	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	ITALY	2009
Admirable de	green	Admirable de	yes	68		FR0138	FR0138-814M01	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	FRANCE	2007

2.5 *SSR-marker data* access is possible by subscription. The conditions to be agreed upon are specified. To subscribe you have to address to Erika Maul, as indicated in the text. A username and a password will be provided.

Figure 13: To register for SSR-marker data admission read carefully the specifications below.

**Public access | SSR-marker data**

**The European *Vitis* Database**

**SSR-marker data in the public domain of the European *Vitis* Database**

- After data delivery by the partners of the EU project GrapeGen06 (2010), a process of quality checking is ongoing and the data may still contain some errors.
- In order to access the data you must first subscribe. For this purpose write to [Erika Maul](#) - indicating your contact data (institution address, street, city, country). For login via home page, user name and password will be sent to the applicant.
- If significant corrections on SSR-marker data were made users are informed.

By subscribing, the user agrees

- not to use the data for commercial purposes
- not to pursue the database owner if mistakes bring him problems or financial losses
- that the login and password are personal and are not transferable to other persons or institutions
- to be responsible for his interpretation of the extracted data
- that in case of data use the European *Vitis* Database **and** the EU project GrapeGen06 **and** eventual individual data sources have to be mentioned as:
  - (1) European *Vitis* Database ([www.eu-vitis.de](http://www.eu-vitis.de)), ©JKI 2007 - 2011
  - (2) [Bacilieri R.](#), and [This P.](#) 2010 : [GrapeGen06](#), an European project for the management and conservation of grapevine genetic resources (<http://www1.montpellier.inra.fr/grapegen06/>).
  - (3) curators and institutes of individual data sources, found via "holding institution" on the SSR-marker data page.

Figure 14: Two search possibilities are offered: Search by cultivars and search by allele lengths. Example: Search for SSR-marker data of accessions named Heunisch weiss.

**Public access | Search by cultivars**

**Note:** use the list fields to select the search criteria.  
Use % as wildcard at the beginning of a keyword for searching for the word with multiple beginnings.

[Download \(or view\):](#)

- Guidelines for the compilation of MCPD descriptors related to 'trueness to type'.
- What is 'trueness to type'.
- SSR-marker data of 'reference varieties'.

**Accession name**

**Color of berry skin**

**Variety name**

**Accession number**

**Holding institution**

**Genus, species**

**Subtaxa**

**Subtaxa authority**

**Country of origin of the variety**

**Trueness to type**

**Variety number VIVC**

**Login successful** DEUM001

Figure 15: For three accessions named Heunisch weiss SSR-marker data are available. With a click on the accession number you have access to the data.

**Public access | Search by cultivars**

Search criterion :  
1. Accession name : Heunisch weiss  
Search result : 3 ( 1 -- 3 )

[Back to search form](#) [Previous page](#)

**First | Last**

Accession name	Color of berry skin	Variety name	Trueness to type of the variety	Variety number VIVC	Remarks to the accession name	Holding institution	Accession number (access to data)	Species	Subtaxa	Country of origin of the variety
HEUNISCH WEISS	green	HEUNISCH WEISS	yes	5374		DEU098	DEU098-1993-303	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	AUSTRIA
HEUNISCH WEISS	green	HEUNISCH WEISS	yes	5374	true name	ESP080	ESP080-BGV CAM2767	VITIS VINIFERA LINNÉ		AUSTRIA
HEUNISCH WEISS	green					HUN045	HUN045-408			

Figure 16: The coded SSR-marker data of the accession Heunisch weiss, described by ESP080.

**Public access | SSR-marker data**

[Back to search form](#) [Previous page](#)

**Common passport descriptors**

Accession name	HEUNISCH WEISS
Accession number	ESP080-BGV CAM2767
Variety name	HEUNISCH WEISS
Color of berry skin	green
Genus, species	VITIS VINIFERA LINNÉ
Country of origin of the variety	AUSTRIA
Use (crop name)	WINE GRAPE
Holding institution	ESP080

**SSR-marker data**

OIV Code	Descriptor	Allele size (N) observed by GrapeGen06 partners	Coded allele1	Variety code (example variety)	Coded allele2	Variety code (example variety)
OIV 801	VVS2	121 - 124 bp	N+10	BA1 (Barbera N 1)	N+20	CH2 (Chardonnay B 2)
OIV 802	VMD5	218 - 224 bp	N+12	CH1 (Chardonnay B 1)	N+18	CF2 (Cabernet franc N 2)
OIV 803	VMD7	229 - 235 bp	N+8	CF1 (Cabernet franc N 1)	N+18	MU2 (Muscat à petits grains blancs B 2)
OIV 804	VMD27	171 - 175 bp	N+4	MU1 (Muscat à petits grains blancs B 1)	N+6	CF1 (Cabernet franc N 1)
OIV 805	VrZAG62	172 - 178 bp	N+22	CH2 (Chardonnay B 2)	N+30	CF2 (Cabernet franc N 2)
OIV 806	VrZAG79	234 - 238 bp	N	RO1 (Romorantin B 1)	N+6	CH1 (Chardonnay B 1)
OIV 807	VMD25	233 - 239 bp	N+4		N+20	
OIV 808	VMD28	215 - 219 bp	N+12		N+30	
OIV 809	VMD32	234 - 236 bp	0		0	

Figure 17: A click on the question mark the allelic ladder of markers are displayed.

**Public access | SSR-marker data**

[Back to search form](#) [Previous page](#)

**Common passport descriptors**

Accession name	HEUNISCH WEISS
Accession number	ESP080-BGV CAM2767
Variety name	HEUNISCH WEISS
Color of berry skin	
Genus, species	
Country of origin of the variety	
Use (crop name)	
Holding institution	

**SSR-marker**

OIV Code	Descriptor	Allele size (N) observed by GrapeGen06 partners	Coded allele1	Variety code (example variety)	Coded allele2	Variety code (example variety)
OIV 801	VVS2	121 - 124 bp	N+10	BA1 (Barbera N 1)	N+20	CH2 (Chardonnay B 2)
OIV 802	VMD5	218 - 224 bp	N+12	CH1 (Chardonnay B 1)	N+18	CF2 (Cabernet franc N 2)
OIV 803	VMD7	229 - 235 bp	N+8	CF1 (Cabernet franc N 1)	N+18	MU2 (Muscat à petits grains blancs B 2)
OIV 804	VMD27	171 - 175 bp	N+4	MU1 (Muscat à petits grains blancs B 1)	N+6	CF1 (Cabernet franc N 1)
OIV 805	VrZAG62	172 - 178 bp	N+22	CH2 (Chardonnay B 2)	N+30	CF2 (Cabernet franc N 2)
OIV 806	VrZAG79	234 - 238 bp	N	RO1 (Romorantin B 1)	N+6	CH1 (Chardonnay B 1)
OIV 807	VMD25	233 - 239 bp	N+4		N+20	
OIV 808	VMD28	215 - 219 bp	N+12		N+30	
OIV 809	VMD32	234 - 236 bp	0		0	

**Descriptor notations:**  
n=33C1 (Couderc 3309 1)  
n=2=VIA1 (Vialan 1)  
n=4=MG1 (Millardet et Grasset 420 A 1)  
n=6=RO1 (Romorantin B 1)  
n=8=VE 1 (Vellier rot RG 1)  
n=10=BA1 (Barbera N 1)  
n=12=BA2 (Barbera N 2)  
n=14=CH1 (Chardonnay B 1)  
n=16=CF1 (Cabernet franc N 1)  
n=18=GO2 (Goethe 9 2)  
n=20=CH2 (Chardonnay B 2)  
n=22=SU1 (Sultanina B 1)  
n=24=CF2 (Cabernet franc N 2)  
n=26=RR2 (Richter 99 2)  
n=28=SI1 (Silvane B 1)  
n=30=SI2 (Silvane B 2)  
n=32=MAR2 (Madeleine Royale B 2)  
n=34=MAN2 (Mancin N 2)  
n=36=  
n=38=33C2 (Couderc 3309 2)

Figure 18: To search by allele length edit the coded values, e.g. for VVS2 “n+20” and “n+22”.

**Public access | Search by allele lengths**

Note: Edit the coded allele lengths.

Download (or view):

- Guidelines for the compilation of MCPD descriptors related to 'trueness to type'.
- What is 'trueness to type'.
- SSR-marker data of 'reference varieties'.

**SSR-marker**

Search by allele lengths

OIV Code	Descriptor	coded allele1	coded allele2
OIV 801	SSR-marker VVS2	n+20	n+22
OIV 802	SSR-marker VVMD5		
OIV 803	SSR-marker VVMD7		
OIV 804	SSR-marker VVMD27		
OIV 805	SSR-marker VrZAG62		
OIV 806	SSR-marker VrZAG79		
OIV 807	SSR-marker VVMD25		
OIV 808	SSR-marker VVMD28		
OIV 809	SSR-marker VVMD32		

Figure 19: 166 accessions have been found with allele sizes “n+20” and “n+22” at VVS2 locus.

**Public access | Search by allele lengths**

Search criteria :

- OIV 801 VVS2 coded allele1 : n+20
- OIV 801 VVS2 coded allele2 : n+22

Search result : 166 ( 1 -- 100 )

[Back to search form](#) [Previous page](#)

[First](#) | [Next](#) | [Last](#) |

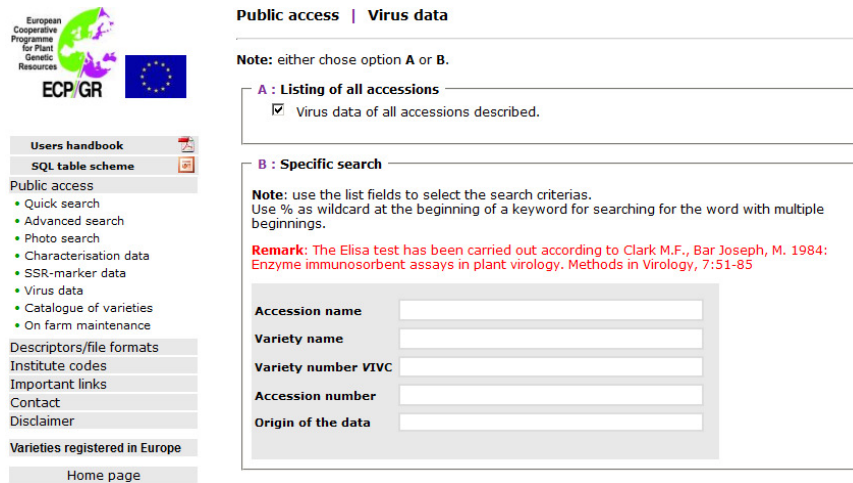
Accession name	Color of berry skin	Variety name	Trueness to type of the variety	Variety number VIVC	Remarks to the accession name	Holding institution	Accession number (access to data)	Species	Subtaxa	Country of origin of the variety
Aceria	green		not checked			ITA362	ITA362-39			
Agiorgitico noir	black	Aghiorgitico	yes	102		FRA139	FRA139-1816Mtp2	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	GREECE
AGIORGITIKO	black	AGIORGITIKO	yes	102	true name	ESP080	ESP080-BGV CAM2624	VITIS VINIFERA LINNÉ		GREECE
AGIORGITIKO	black		yes			GRC005	GRC005-19/A	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	GREECE
AIREN	green	AIREN	yes	157		DEU098	DEU098-1994-060	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	SPAIN
AIRÉN	green	AIRÉN	yes	157	true name	ESP080	ESP080-BGV CAM2031	VITIS VINIFERA LINNÉ		SPAIN
Airen	green		not checked			ITA362	ITA362-57			
ALARIE	green	ALARIE	yes	213	true name	ESP080	ESP080-BGV CAM2328	VITIS VINIFERA LINNÉ		SPAIN
ALBILLO MAYOR	green	ALBILLO MAYOR	yes	12581	true name	ESP080	ESP080-BGV CAM2029	VITIS VINIFERA		SPAIN

Figure 20: With a click on “SSR-marker data of reference varieties” the coded allele sizes of 46 reference varieties can be either viewed or downloaded

1	Work 1-INSTCC 2-ACCENUMI	11-ACCENAN A-Variety na	B-BERRY CO	VVMD5	VVMD5	VVMD7	VVMD7	VVMD25	VVMD25	VVMD27	VVMD27	VVMD27	VVMD27
2	WP1 FRA139	FRA139-18M Carignan	Cariñena ma BLACK	N+6	N+12	N+8	N+18	N+4	N+20	N+4	N+10	N+2	
3	WP1 FRA139	FRA139-64M Mourvèdre	Mourvèdre BLACK	N+4	N+18	N+18	N+18	N+6	N+28	N+4	N+14	N+28	
4	WP1 FRA139	FRA139-25M Furmint	Tokay GREEN	N+4	N+18	N+8	N+18	N+4	N+6	N+4	N+19	N+12	
5	WP1 FRA139	FRA139-74M Ugni blanc	Ugni blanc U. GREEN	N+4	N+10	N+18	N+22	N+6	N+20	N+4	N+8	N+28	
6	WP1 FRA139	FRA139-555M Muscat à pet	Muscat di C GREEN	N+6	N+14	N+2	N+18	N+6	N+14	N+4	N+19	N+30	
7	WP1 FRA139	FRA139-308M Muscat d'Ale	Muscat d'Ale GREEN	N+6	N+10	N+18	N+20	N+14	N+14	N+4	N+19	N+28	
8	WP1 FRA139	FRA139-443M Mauzac	Mauzac blan GREEN	N+8	N+10	N+8	N+18	N+14	N+14	N+10	N+16	N+12	
9	WP1 FRA139	FRA139-326M Merlot	Merlot noir BLACK	N+6	N+14	N+8	N+22	N+6	N+14	N+10	N+14	N+18	
10	WP1 FRA139	FRA139-258M Gewurztram	Gewürztram ROSE	N+4	N+12	N+8	N+8	N+4	N+20	N+6	N+19	N+12	
11	WP1 FRA139	FRA139-284M Velteliner rc	Velteliner rc ROSE	N+18	N+24	N+8	N+22	N+4	N+6	N+8	N+19	N+30	
12	WP1 FRA139	FRA139-193M Pinot noir	Pinot fin BLACK	N+6	N+16	N+8	N+12	N+4	N+14	N+10	N+14	N+2	
13	WP1 FRA139	FRA139-270M Sylvaner	Sylvain Froel GREEN	N+4	N+10	N+12	N+16	N+6	N+14	N+14	N+19	N+12	
14	WP1 FRA139	FRA139-199M Chardonnay	Chardonnay GREEN	N+12	N+16	N+8	N+12	N+4	N+20	N+6	N+14	N+2	
15	WP1 FRA139	FRA139-322M Cabernet-Sa	Cabernet Sai BLACK	N+6	N+12	N+8	N+8	N+6	N+20	N+4	N+10	N+18	
16	WP1 FRA139	FRA139-324M Cabernet fra	Cabernet fra BLACK	N+4	N+10	N+12	N+24	N+14	N+20	N+14	N+19	N+18	
17	WP1 FRA139	FRA139-304M Romorantin	Romorantin GREEN	N+12	N+16	N+12	N+18	N+4	N+14	N+4	N+14	N+12	
18	WP1 FRA139	FRA139-1216 Mancin	Mancin BLACK	N+10	N+16	N+8	N+8	N+4	N+20	N	N+14	N+32	
19	WP1 FRA139	FRA139-450M Portugais blé	Portugais blé BLACK	N+4	N+10	N+12	N+24	N+14	N+14	N+6	N+19	N+12	
20	WP1 FRA139	FRA139-653M Madeleine r	Madeleine R GREEN	N+4	N+4	N+16	N+32	N+4	N+14	N+8	N+19	N+20	
21	WP1 FRA139	FRA139-814M Admirable d	Admirable d GREEN	N+4	N+14	N+8	N+12	N+6	N+20	N+10	N+19	N+18	
22	WP1 FRA139	FRA139-1595 Hans	Hansen ROSE	N+14	N+16	N+8	N+26	N+4	N+14	N	N+14	N+20	

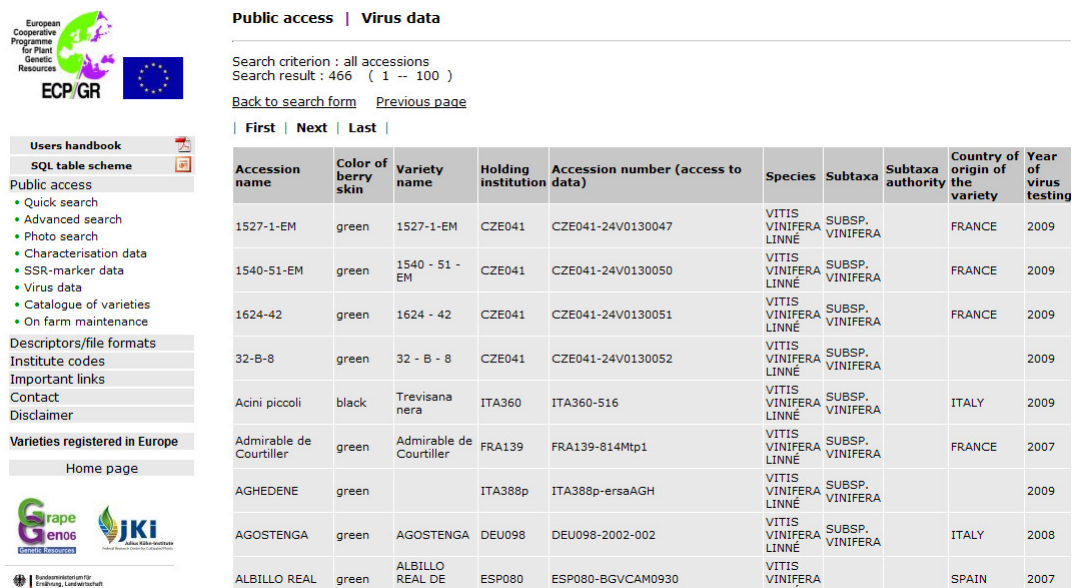
## 2.6 *Virus data* of most of the characterized accessions are available

Figure 21: Two options exist: either you select “A” to obtain all accessions for which virus status has been determined or you carry out a preselection by list fields, using “B” Specific search.



The screenshot shows the ECP/GR website interface. On the left is a navigation menu with items like 'Users handbook', 'SQL table scheme', 'Public access', 'Quick search', 'Advanced search', 'Photo search', 'Characterisation data', 'SSR-marker data', 'Virus data', 'Catalogue of varieties', 'On farm maintenance', 'Descriptors/file formats', 'Institute codes', 'Important links', 'Contact', 'Disclaimer', 'Varieties registered in Europe', and 'Home page'. The main content area is titled 'Public access | Virus data'. It contains a 'Note: either chose option A or B.' and two search options: 'A : Listing of all accessions' with a checked checkbox for 'Virus data of all accessions described.', and 'B : Specific search' with a note on search criteria and a 'Remark' about the Elisa test. Below the search options are input fields for 'Accession name', 'Variety name', 'Variety number VIVC', 'Accession number', and 'Origin of the data'.

Figure 22: By choosing option “A” the total of analysed accessions turned out to be 466 (February 2012)



The screenshot shows the ECP/GR website interface displaying search results for virus data. The search criterion is 'all accessions' and the result is 466 (1 -- 100). Below the search results are navigation links: 'Back to search form', 'Previous page', and 'First | Next | Last |'. A table lists the search results with columns: 'Accession name', 'Color of berry skin', 'Variety name', 'Holding institution', 'Accession number (access to data)', 'Species', 'Subtaxa', 'Subtaxa authority', 'Country of origin of the variety', and 'Year of virus testing'.

Accession name	Color of berry skin	Variety name	Holding institution	Accession number (access to data)	Species	Subtaxa	Subtaxa authority	Country of origin of the variety	Year of virus testing
1527-1-EM	green	1527-1-EM	CZE041	CZE041-24V0130047	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		FRANCE	2009
1540-51-EM	green	1540 - 51 - EM	CZE041	CZE041-24V0130050	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		FRANCE	2009
1624-42	green	1624 - 42	CZE041	CZE041-24V0130051	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		FRANCE	2009
32-B-8	green	32 - B - 8	CZE041	CZE041-24V0130052	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA			2009
Acini piccoli	black	Trevisana nera	ITA360	ITA360-516	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		ITALY	2009
Admirable de Courtiller	green	Admirable de Courtiller	FRA139	FRA139-814Mtp1	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		FRANCE	2007
AGHEDENE	green		ITA388p	ITA388p-ersaAGH	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA			2009
AGOSTENGA	green	AGOSTENGA	DEU098	DEU098-2002-002	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		ITALY	2008
ALBILLO REAL	green	ALBILLO REAL DE	ESP080	ESP080-BGV CAM0930	VITIS VINIFERA			SPAIN	2007

2.7 *Catalogue of varieties* offers to users a one side description of an accession downloadable as a pdf document. The description encompasses morphological and agronomical characteristics and photos of the shoot tip, leaves and a bunch.

Public access | Catalogue of autochthonous varieties

Note : variety description sheets encompass photos of the shoot tip, leaves and clusters of the varieties described in the scope of Genes081 and GrapeGen06, as well as ampelographic and agronomic characteristics. Use the list fields to select the search criteria. Use % as wildcard at the beginning of a keyword for searching for the word with multiple beginnings.

Accession name:

Color of berry skin:

Variety name:

Country of origin of the variety: SPAIN

Use (crop name):

Holding institutions:

Workpackage:

Search  Reset

EU:Witz - Copyright JKI © 2007

Figure 23: With respect to country of origin of the variety “Spain”, 487 accessions have been described. For the generation of a pdf document the accession “Forcallat”, described by ESP080 has been chosen.

Public access | Catalogue of autochthonous varieties

Search criterion : SPAIN  
Search result : 487 ( 1 -- 100 )

[Back to search form](#) [Previous page](#)

| [First](#) | [Next](#) | [Last](#) |

Accession name	Color of berry skin	Variety name	Holding institution	Accession number (access to variety description pdf format)	Species	Subtaxa	Subtaxa authority	Country of origin of the variety	Year of description
AGUDELO		AGUDELO	ESP080	ESP080-BGVCAM1564	VITIS VINIFERA LINNÉ			SPAIN	2008
AIREN		AIREN	DEU098	DEU098-1994-060	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		SPAIN	1999
Airén			ESP074	P04#9184	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		SPAIN	1999
Airén			ESP074	P04#9184	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		SPAIN	2000
AIRÉN		AIRÉN	ESP080	ESP080-BGVCAM2031	VITIS VINIFERA LINNÉ			SPAIN	1999
AIRÉN		AIRÉN	ESP080	ESP080-BGVCAM2031	VITIS VINIFERA LINNÉ			SPAIN	2008
ALARJE		ALARJE	ESP080	ESP080-BGVCAM2328	VITIS VINIFERA LINNÉ			SPAIN	2008
Alarije dorado			ESP074	P04#9002	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		SPAIN	2000
Alarije dorado			ESP074	P04#9002	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		SPAIN	1999
ALBARÍN BLANCO		ALBARÍN BLANCO (SAVAGNIN BLANCO)	ESP080	ESP080-BGVCAM1571	VITIS VINIFERA LINNÉ			SPAIN	2008

A click on the accession number leads to the next step before generating the pdf document, see figure 14.

Figure 24: If several photos of one category exist, the most appropriate can be chosen.



**Users handbook**

**SQL table scheme**

**Public access**

- Quick search
- Advanced search
- Photo search
- Characterisation data
- SSR-marker data
- Virus data
- Catalogue of varieties
- On farm maintenance

**Descriptors/file formats**

**Institute codes**

**Important links**

**Contact**

**Disclaimer**

**Varieties registered in Europe**

[Home page](#)

**Public access | Catalogue of autochthonous varieties**

[Back to search form](#)   [Previous page](#)

[PDF Document](#)

Click on the pdf document to generate the one side description of the accession. See an example in figure 25.

---

**Common passport descriptors**

Accession name	FORCALLAT
Accession number	ESP080-BGVCAM0973
Variety name	FORCALLAT BLANCA
Color of berry skin	green
Genus, species	VITIS VINIFERA LINNÉ
Subtaxa	
Subtaxa authority	
Country of origin of the variety	SPAIN
Use (crop name)	WINE GRAPE
Holding institution	ESP080
Year of description	1999

---

**Category of photos**

**Note:** for the establishment of the catalogue choose one convenient photo of each categorie *shoot tip, leaf and bunch*.

**Shoot tip**



**Mature leaf**



**Bunch**




**Berry**







Bundesministerium für Ernährung, Landwirtschaft und Verbraucherschutz

Figure 25: The finalized pdf document of “Forcallat” can be downloaded.



## FORCALLAT (ESP080-BGVCAM0973) B



**Multi Crop Passport Descriptor Data**

Color of berry skin	green
Variety name	FORCALLAT
Genus, Species	VITIS VINIFERA LINNÉ
Country of origin of the variety	SPAIN
Use (crop name)	WINE GRAPE
Holding Institution	Instituto Madrileño de Investigación Agraria y Alimentaria (I.M.I.A) Finca "El Encin", Alcalá de Henares - I.M.I.D.R.A E - 28800 Madrid

**Priority descriptor data**

OIV 004	Young shoot: density of prostrate hairs on the shoot tip	high
OIV 051	Young leaf: color of upper side of blade (4th leaf)	bronze
OIV 068	Mature leaf: number of lobes	seven
OIV 070	Mature leaf: area of anthocyanin coloration of main veins on the upper side of blade	absent
OIV 076	Mature leaf: shape of teeth	both sides straight
OIV 079	Mature leaf: degree of opening / overlapping of petiole sinus	open
OIV 084	Mature leaf: density of prostrate hairs between main veins on lower side of blade	low
OIV 087	Mature leaf: density of erect hairs on main veins on lower side of blade	low
OIV 223	Berry: shape	broad ellipsoid
OIV 225	Berry: color of skin	green yellow

**Bunch / berry descriptor data**




OIV 202	Bunch: length (peduncle excluded)	
OIV 204	Bunch: density	loose / medium
OIV 206	Bunch: length of peduncle of primary bunch	short (about 50 mm)
OIV 209	Bunch: number of wings of the primary bunch	1-2 wings, 3-4 wings,
OIV 220	Berry: length	
OIV 221	Berry: width	
OIV 502	Bunch: single bunch weight	
OIV 503	Berry: single berry weight	low (about 3 g)

**Agronomic features**

OIV 301	Time of bud burst	very early
OIV 303	Time of beginning of berry ripening (veraison)	
OIV 351	Vigor of shoot growth	
OIV 504	Yield per m2	
OIV 505	Sugar content of must	high (about 21 %)

GrapeGen6
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07.01.2010



**2.8 On-farm maintenance** - of neglected varieties and of minor importance - by winegrowers represents a practicable alternative to its preservation in governmental grapevine repositories. Agronomical features of such kind of germplasm have been evaluated.

Figure 26: Two options exist: either you select “A” to obtain all varieties studied or you carry out a preselection by list fields, using “B” Specific search.

The screenshot shows the ECP/GR website interface. On the left is a navigation menu with categories like 'Public access', 'Descriptors/file formats', and 'Varieties registered in Europe'. The main content area is titled 'Public access | On farm evaluation'. It contains a 'Note' stating 'either chose option A or B.' Below this are two options: 'A : Accession table listing' with a checkbox for 'Listing of the complete table of varieties studied.', and 'B : Specific search' which includes a note about using wildcards and three dropdown menus for 'Variety name', 'Origin of the data', and 'Country of origin of the variety'. At the bottom are 'Search' and 'Reset' buttons, and a copyright notice 'EU.Vitis - Copyright JKI © 2007'.

Figure 27: 56 varieties have been evaluated on-farm. A downloadable document encompasses all information about the variety divided into 6 sections, starting from “General description of the cultivar” to “Wine evaluation”, see the next figure. Access to data is obtained by clicking on the “Variety name” in the 1<sup>st</sup> column.

The screenshot shows the ECP/GR website interface displaying search results. The search criterion is 'all varieties' and the result is '56 ( 1 -- 56 )'. There are links for 'Back to search form' and 'Previous page'. Below the search form are 'First' and 'Last' navigation buttons. The main content is a table with the following columns: 'Variety name (access to data)', 'Color of berry skin', 'Holding institution', 'Country of origin of the variety', and 'Download On farm data (PDF-File)'. The table lists 16 varieties, including Aghedene, Albillo, Arcè, Babica, Barsaglina, Berzamino, Brajdica bijela, Brambana, Capolongo, Casetta, Cjavalgjan, Crepolino, Cuneute, and Eibling blau.

Variety name (access to data)	Color of berry skin	Holding institution	Country of origin of the variety	Download On farm data (PDF-File)
<a href="#">Aghedene</a>	green yellow	CRA – Centro di ricerca per la viticoltura, #6, (in collaboration with CRA – Unità di ricerca per la Viticoltura (ITA372))	Italy	<a href="#">view</a>
<a href="#">Albillo</a>	green yellow	I.M.I.D.R.A. Partner 3	Spain	<a href="#">view</a>
<a href="#">Arcè</a>	blue dark	University of Verona	Italy	<a href="#">view</a>
<a href="#">Babica</a>	blue dark	Faculty of Agriculture, University of Zagreb	Croatia	<a href="#">view</a>
<a href="#">Barsaglina</a>	blue dark	CRA – Centro di ricerca per la viticoltura, #6, (in collaboration with CRA – Unità di ricerca per la Viticoltura (ITA372))	Italy	<a href="#">view</a>
<a href="#">Berzamino</a>	blue dark	CRA – Centro di ricerca per la viticoltura, #6, (in collaboration with CRA – Unità di ricerca per la Viticoltura (ITA372))	Italy	<a href="#">view</a>
<a href="#">Brajdica bijela</a>		Faculty of Agriculture, University of Zagreb	Croatia	<a href="#">view</a>
<a href="#">Brambana</a>	blue dark	CRA – Centro di ricerca per la viticoltura, #6, (in collaboration with CRA – Unità di ricerca per la Viticoltura (ITA372))	Italy	<a href="#">view</a>
<a href="#">Capolongo</a>	green yellow	CRA – Centro di ricerca per la viticoltura, #6, (in collaboration with ARSIAL)	Italy	<a href="#">view</a>
<a href="#">Casetta</a>	blue dark	Istituto Agrario di S. Michele a/A	Italy	<a href="#">view</a>
<a href="#">Cjavalgjan</a>	blue dark	CRA – Centro di ricerca per la viticoltura, #6, (in collaboration with CRA – Unità di ricerca per la Viticoltura (ITA372))	Italy	<a href="#">view</a>
<a href="#">Crepolino</a>	green yellow	CRA – Centro di ricerca per la viticoltura, #6, (in collaboration with CRA – Unità di ricerca per la Viticoltura (ITA372))	Italy	<a href="#">view</a>
<a href="#">Cuneute</a>		CRA – Centro di ricerca per la viticoltura, #6, (in collaboration with CRA – Unità di ricerca per la Viticoltura (ITA372))	Italy	<a href="#">view</a>
<a href="#">Eibling blau</a>	blue dark	Julius Kühn Institut, Institut für Rebenzüchtung Geilweilerhof, partner number 1	Germany	<a href="#">view</a>

Figure 28: Head of the downloaded document encompassing all information about the variety divided into 6 sections, starting from “General description of the cultivar” to “Wine evaluation”.

### On farm evaluation

#### Section 1 - General description of the cultivar

Variety main local name	Montanera (di Perosa)
Synonyms	Negrera (biellese), Corvino, Paganona
Reasons for which the variety is studied	Montanera, Negrera and Corvino are quoted in documents of late 1800 (before phylloxera) as belonging to the varietal assortment of the 3 alpine areas where these grapes, now endangered to disappear, were recently recovered. When planted in collection, these 3 cultivars resulted synonyms.
Historical data	The specification of the site of recovery in its name (“di Perosa”) is due to the existence of a different, homonymous Montanera. Nowadays Montanera (di Perosa) can be rarely found in the alpine valleys of Chisone, Ossola and Valtellina, all areas at the foot of the Alps.
Area global surface	estimated 2 ha (2008)
Notes	This cultivar has been evaluated either on 2008 or 2009 in the same experimental vineyard at Grinzane (central Piedmont)

Figure 29: All information encompassing the on-farm description/evaluation of neglected cultivars.

### On farm evaluation

[Back to search form](#) [Previous page](#)

#### Section 1 - General description of the cultivar

Variety main local name	Montanera (di Perosa)
Synonyms	Negrera (biellese), Corvino, Paganona
Reasons for which the variety is studied	Montanera, Negrera and Corvino are quoted in documents of late 1800 (before phylloxera) as belonging to the varietal assortment of the 3 alpine areas where these grapes, now endangered to disappear, were recently recovered. When planted in collection, these 3 cultivars resulted synonyms.
Historical data	The specification of the site of recovery in its name (“di Perosa”) is due to the existence of a different, homonymous Montanera. Nowadays Montanera (di Perosa) can be rarely found in the alpine valleys of Chisone, Ossola and Valtellina, all areas at the foot of the Alps.
Area global surface	estimated 2 ha (2008)
Notes	This cultivar has been evaluated either on 2008 or 2009 in the same experimental vineyard at Grinzane (central Piedmont)

#### Section 2 - Vineyard general description

Clone	population
Institution describing the variety	
Country	Italy
Owner of the vineyard	ITA Umberto I, Corso Enotria 1, Alba, CNR, Italy
Geographical localization	Grinzane Cavour (CN), Italy
Name of control variety and distance to the vineyard	Barbera 25 m
Description of the vineyard	experimental vineyard
The historical data of the vineyard	Planted in 2003
Age (years)	5
Surface	250 m <sup>2</sup>
Soil type	Sand 20%, silt 53%, clay 27%, pH 8,1
Exposure and slope	South, slope 15%
Spacing and density	2,8 x 1,0 m, 3570 plants/ha
Rootstock(s)	SO4
General status and missing vines	Good, no missing vines, rather weak vigour
Trellis system	Vertical trellis
Pest control management	Very good, no remarks
Pruning system	Guyot single cane
Notes	

#### Section 3 - Ampelography

DNA-genotyping	ITA360-220
Accession number	ITA360p-on-farm Montanera (di Perosa)
Variety number in the VIVC	22777
Virus status	no symptoms
Number of years of observation	2
Characterisation data	YES

Section 4 - Agronomic features		
Partner vineyard and owner	ITA360, Grinzane, Ist.TA Umberto I	ITA360, Grinzane, Ist.TA Umberto I
Description of agronomic management	integrated pest control	integrated pest control
Year of observation	2008	2009
Date of first shooting	1 April	15 April
Date of first shooting of control variety	18 April	26 April
Date of veraison	5 August	1 August
Date of veraison of control variety	19 August	10 August
Date of berry ripening	11 September	3 September
Date of berry ripening of control variety	9 October	23 September
Date of the harvest as traditionally issued in the growing area	5 October	5 October
Bunch weight per plant (kg) (20 plants at the time of the harvest)	2.44	2.44
Yield (kg/ha) (total production at harvest/ number of plants harvested)	8,700 (244 kg from 100 plants; 8,7 t/ha)	8,700 (244 kg from 100 plants; 8,7 t/ha)
Number of bunches per plant (20 plants at the time of the harvest)	12.6	6.7
Average weight of a berry (g)	2 g	2,5 g
Notes		
<b>Grape skin phenolic compounds</b>		
Total anthocyanins [mg/kg]		
• average	2464	2148
• standard deviation	220	456
Proanthocyanidins or tannins (PC) [mg/kg]		
• average	2229	1974
• standard deviation	143	285
Flavanols (tannins) reactive to vanilline (FRV) [mg/kg]		
• average	437	522
• standard deviation	89	178
FRV/PC	0.2	0.26
Total flavonoids * [mg/kg]		
• average	3741	5107
• standard deviation	256	1116
<b>Grape seed phenolic compounds</b>		
Total flavonoids [mg/kg]		
• average	584	452
• standard deviation	37	25
Proanthocyanidins or tannins (PC) [mg/kg]		
• average	650	431
• standard deviation	54	44
Flavanols (tannins) reactive to vanilline (FRV) [mg/kg]		
• average	474	248
• standard deviation	44	19
FRV/PC	0.7	0.6
<b>Grape skin anthocyanin profile (%)</b>		
Delphinidin 3-glucoside	14.9	8.6
Cyanidin 3-glucoside	2.1	0.9
Petunidin 3-glucoside	12.2	9.1
Peonidin 3-glucoside	6.3	3.6
Malvidin 3-glucoside	41.6	41.5
Acyl-derivatives	22.9	36.3

Section 5 - Enological features		
Harvesting year	2008	2009
<b>Must compounds</b>		
Sugar degree (°Brix)	25.3	24
Titriable acidity (g/L tartaric acid)	8.3	7.5
pH	3.18	3.25
<b>Wine chemical composition</b>		
Alcohol % vol	14.04	14.02
Sugar %	0.19	0.13
Total dry matter g/L	27.3	28.1
pH	3.64	3.76
Total acidity g/L H2SO4	6.16	6.15
K+ mg/L		1793
Colour intensity****	1.5	1.41
Colour hue*****	0.65	0.7
Tartaric acid g/L	1.76	1.89
Malic acid g/L	traces	traces
Volatil acid g/L H2SO4		
Lactic acid g/L	2.45	3.26
Citric acid g/L		
Ash g/L	3.15	3.56
<b>Wine phenolic compounds</b>		
Total anthocyanins (mg/L)	549	404
Total Polyphenols Content Index or A 280	1573	1458
Total flavonoids (mg/L)	1573	1458
Proanthocyanidins or tannins(PR) (mg/L)	2209	2249

Section 6 - Wine evaluation		
Vintage	2008	2009
Year of degustation	2009	2010
Number of panelists	9	9
Tasting session	research institute panel (wine experts)	research institute panel (wine experts)
Colour	8.6	8.5
Aroma	7.7	7.7
Taste	8	7.6
Overall assessment	8	7.8
Remarks		short skin contact

**2.9 Descriptors/file formats** lead to both, the descriptors and the excel file format for descriptor recording.

Special attention has to be paid on section “A: Multi Crop Passport Descriptors adopted for *Vitis* specific purposes”, as outlined in paragraph 1.1 General remarks.



- [Users handbook](#)
- [SQL table scheme](#)
- Public access
  - Quick search
  - Advanced search
  - Photo search
  - Characterisation data
  - SSR-marker data
  - Virus data
  - Catalogue of varieties
  - On farm maintenance
- Descriptors/file formats
- Institute codes
- Important links
- Contact
- Disclaimer
- Varieties registered in Europe
- Home page



**Descriptors and file formats**

Multi Crop Passport Descriptors (FAO/Biodiversity Multi Crop Passport Descriptors - General all Species) and characterisation descriptors can be **downloaded** as well as excel files for data recording:

**A : Multi Crop Passport Descriptors adapted for *Vitis* specific purposes**

- Multi Crop Passport Descriptors - Specific for Grapevine
- Guidelines for the compilation of MCPD descriptors related to 'trueness to type'
- What is 'trueness to type'
- File format for Multi Crop Passport Descriptors

**B : Descriptors for characterisation**

- Primary and secondary descriptors : tabular listing and single descriptors
- File format for descriptor recording
- File format for SSR-marker recording

**C : Virus status**

- Guidelines for Elisa test
- File format for virus status recording

**D : On farm evaluation**

- Section 1 - General description of the cultivar
- Section 2 - Vineyard general description
- Section 3 - Ampelography
- Section 4 - Agronomic features
- Section 5 - Ecological features
- Section 6 - Wine tasting results

**E : *Vitis sylvestris* populations/ plants**

- Protocol for the inventory of *Vitis vinifera* L. subsp. *sylvestris*
- *Vitis sylvestris* populations
- *Vitis sylvestris* plants

**F : Specific descriptor search option**  
 Note : use the list fields to select the search criterion (download all descriptors: OIV).

All groups

- Berry
- Bunch
- Flower
- Growth
- Mature leaf
- Phenology
- Shoot
- SSR-marker
- Yield

Search    Reset

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**2.10 Institute codes** mentioned in the MCPD data of the partners can be retrieved. Contact data of institute codes are provided.



- [Users handbook](#)
- [SQL table scheme](#)
- Public access
  - Quick search
  - Advanced search
  - Photo search
  - Characterisation data
  - SSR-marker data
  - Virus data
  - Catalogue of varieties
  - On farm maintenance
- Descriptors/file formats
- Institute codes**
- Important links
- Contact
- Disclaimer
- Varieties registered in Europe
- Home page



**Institute codes**

**A : Institute codes and contact data**

Listing of all institute codes and their contact data

**B : Institute codes of GrapeGen06 partners**

Note: use the list fields to select the search criterion.

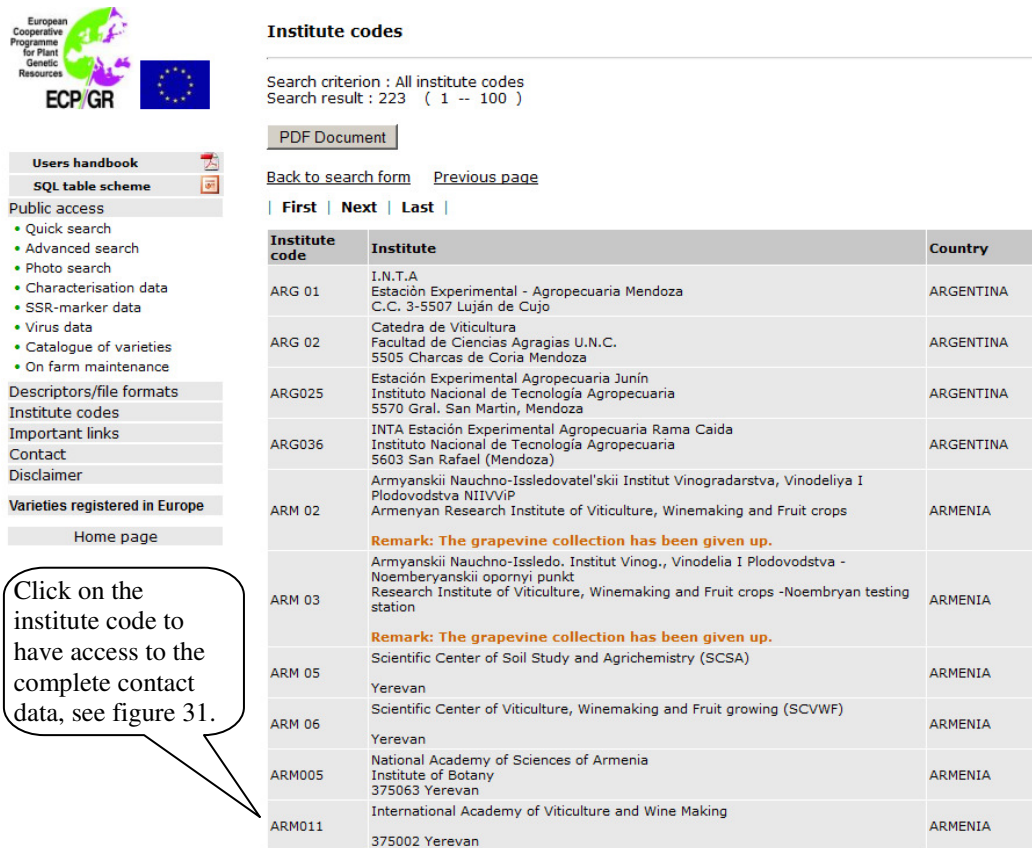
All institute codes

- ARMENIA
- AUSTRIA
- AZERBAIJAN
- BULGARIA
- CROATIA
- CYPRUS
- CZECH REPUBLIC
- FRANCE
- GEORGIA

Search    Reset

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Figure 30: Institute codes occurring in the MCPD data as holding institutions, donors, breeders, collecting institutes or duplicate holders.



**Institute codes**

Search criterion : All institute codes  
Search result : 223 ( 1 -- 100 )

[PDF Document](#)

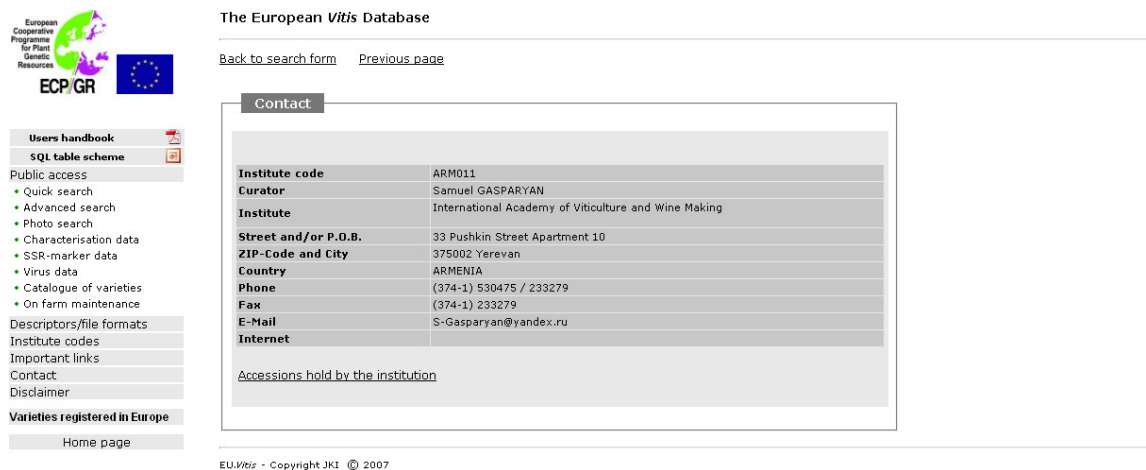
[Back to search form](#) [Previous page](#)

| [First](#) | [Next](#) | [Last](#) |

Institute code	Institute	Country
ARG 01	I.N.T.A Estación Experimental - Agropecuaria Mendoza C.C. 3-5507 Luján de Cuyo	ARGENTINA
ARG 02	Catedra de Viticultura Facultad de Ciencias Agrarias U.N.C. 5505 Charcas de Coria Mendoza	ARGENTINA
ARG025	Estación Experimental Agropecuaria Junin Instituto Nacional de Tecnología Agropecuaria 5570 Gral. San Martin, Mendoza	ARGENTINA
ARG036	INTA Estación Experimental Agropecuaria Rama Caida Instituto Nacional de Tecnología Agropecuaria 5603 San Rafael (Mendoza)	ARGENTINA
ARM 02	Armyanskii Nauchno-Issledovatel'skii Institut Vinogradarstva, Vinodeliya I Plodovodstva NIIVVIP Armenyan Research Institute of Viticulture, Winemaking and Fruit crops	ARMENIA
ARM 03	Armyanskii Nauchno-Issledo. Institut Vinog., Vinodelia I Plodovodstva - Noembryanskii oporny punkt Research Institute of Viticulture, Winemaking and Fruit crops -Noembryan testing station	ARMENIA
ARM 05	Scientific Center of Soil Study and Agrichemistry (SCSA) Yerevan	ARMENIA
ARM 06	Scientific Center of Viticulture, Winemaking and Fruit growing (SCVWF) Yerevan	ARMENIA
ARM005	National Academy of Sciences of Armenia Institute of Botany 375063 Yerevan	ARMENIA
ARM011	International Academy of Viticulture and Wine Making 375002 Yerevan	ARMENIA

Click on the institute code to have access to the complete contact data, see figure 31.

Figure 31: Code ARM011 and respective complete contact data.



**The European Vitis Database**

[Back to search form](#) [Previous page](#)

**Contact**

<b>Institute code</b>	ARM011
<b>Curator</b>	Samuel GASPARYAN
<b>Institute</b>	International Academy of Viticulture and Wine Making
<b>Street and/or P.O.B.</b>	33 Pushkin Street Apartment 10
<b>ZIP-Code and City</b>	375002 Yerevan
<b>Country</b>	ARMENIA
<b>Phone</b>	(374-1) 530475 / 233279
<b>Fax</b>	(374-1) 233279
<b>E-Mail</b>	S-Gasparyan@yandex.ru
<b>Internet</b>	

[Accessions held by the institution](#)

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### 3 Description of search and working tools on the partner access level

Enter your username and your password to enter the partner access level.

#### 3.1 Annual update of MCPD data in EURISCO

After the successful login you are reminded to send your MCPD data to your national inventory focal point once a year. The national inventory focal point will arrange that the MCPD data are uploaded into the EURISCO-database (<http://eurisco.ecpgr.org>).

By clicking on the green fleashes the window is expanded and offers the possibility to change the password.

## 3.2 The all partner access level

The search options on the **all partner access** level are the same as on the **public access** level, see pages 2 to 13 and 17 to 19 of the handbook, except for the catalogue of varieties. This latter tool was made available for all users and is thus existing only once on the public level.

**3.2.1 SSR-marker data** are accessible only via the partner access level for partners having signed the confidentiality agreement. They were made available for public users in 2011 after the runtime of GrapeGen06.

Figure 32: SSR-marker data of 4364 accessions have been uploaded until February, 2012. Reference varieties are highlighted (green color) and can be exported separately.

Accession name	Color of berry skin	Variety name	Trueness to type of the variety	Variety number VIVC	Remarks to the accession name	Holding institution	Accession number (access to data)	Species	Subtaxa	Country of origin of the variety
RSB 1 clone 109		RSB 1	yes	4028		FRA274	FRA274-9181E3			
110 R clone 152		110 R	yes	10065		FRA274	FRA274-9159E37			FRANCE
110 R clone 164		110 R	yes	10065		FRA274	FRA274-9159E30			FRANCE
1103 Pa clone 768		1103 Pa	yes	9023		FRA274	FRA274-9003E11			ITALY
125 AA	black	125 AA = Kober 125 AA	yes	12344		FRA139	FRA139-9191Mtp1	INTER-GENERIC CROSSING		HUNGARY
140 Ru clone 265		140 Ru	yes	10351		FRA274	FRA274-9001E15			ITALY
161-49 C clone 170		161-49 C	yes	3016		FRA274	FRA274-9031E5			FRANCE
1616 C clone 98		1616 C	yes	3134		FRA274	FRA274-9039E2			FRANCE
Admirable de Courtiller	green	Admirable de Courtiller	yes	68	true name	FRA139	FRA139-814Mtp1	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	FRANCE
Adreuli tkhelkana	black		no			ITA035	ITA035-21	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	
AFFENTHALER	black	AFFENTHALER	yes	79		DEU098	DEU098-1992-074	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	GERMANY
AGADAI	green		not checked	95		DEU098	DEU098-1980-120	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	DAGHESTAN
AGASFARK	black					HUN045	HUN045-49			
Aghbzh	green		no			ITA035	ITA035-22	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	
AGHEDENE	green					ITA388p	ITA388p-ersaAGH	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	
Agiorgitico noir	black	Agiorgitiko	yes	102		FRA139	FRA139-1816Mtp2	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	GREECE
AGIORGITIKO	black			102		AUT024	AUT024-3			

### 3.2.2 Access to the data of work packages I to V

GrapeGen06 consists of 7 **work packages**:

- (I) Acquisition of SSR-marker data
- (II) Characterisation and evaluation of old and endangered grape varieties
- (III) On farm evaluation of agronomic features of autochthonous varieties
- (IV) Study of *Vitis sylvestris* germplasm
- (V) Trueness to type analysis
- (VI) European *Vitis* Database
- (VII) Elaboration of a long term conservation strategy.

The outcome of **work packages I to V** is documented separately.

In contrast to the **public access** level on the **all partner** and **partner specific access** level, the European *Vitis* Database partners have the possibility to download all registered data of MCPD, characterisation, SSR-marker analysis, virus status, on-farm maintenance and *Vitis sylvestris* populations and plants. Three examples are given: SSR-marker, on-farm management and *Vitis sylvestris* data.

Figure 33: Objective: search for and export of the characterization data of all described accessions.

The screenshot shows the 'All partner access | Characterisation data' page. It includes a sidebar with navigation links like 'Users handbook', 'SQL table scheme', and 'Work package'. The main content area has a search form with fields for 'Accession name', 'Variety name', 'Accession number', 'Year of description', and 'Origin of the data'. There are two search options: 'A: Listing of all accessions' (checked) and 'B: Specific search'. A 'Search' button is at the bottom.

Figure 34: Search result: 2748 accessions. Export file of the characterization data is created by clicking on the corresponding button.

The screenshot shows the search results page for 'all accessions' with 2748 results. It features a table with columns: Accession name, Color of berry skin, Variety name, Trueness to type of the variety, Variety number/VIVC, Remarks to the accession name, Holding institution, Accession number (access to ampelographic data), Species, Subtaxa, Country of origin of the variety, and Year of description. Below the table are navigation links and three export buttons: 'Export passport data', 'Export characterisation data', and 'Export SSR-marker data'.

Accession name	Color of berry skin	Variety name	Trueness to type of the variety	Variety number/VIVC	Remarks to the accession name	Holding institution	Accession number (access to ampelographic data)	Species	Subtaxa	Country of origin of the variety	Year of description
1527-1-EM	green	1527-1-EM	not checked			CZE041	CZE041-24V0130047	VITIS VINIFERA LINNE	SUBSP. VINIFERA	FRANCE	2007-2009
1540-51-EM	green	1540 - 51 - EM	not checked			CZE041	CZE041-24V0130050	VITIS VINIFERA LINNE	SUBSP. VINIFERA	FRANCE	2007-2009
1624-42	green	1624 - 42	not checked			CZE041	CZE041-24V0130051	VITIS VINIFERA LINNE	SUBSP. VINIFERA	FRANCE	2007-2009
32-B-8	green	32 - B - 8	not checked			CZE041	CZE041-24V0130052	VITIS VINIFERA LINNE	SUBSP. VINIFERA	FRANCE	2007-2009
34 - EM FDEY( BER.x R.I.P.)						GRC010	P07#B-7				1999
420 A						GRC010	P07#B-4				1999
ABELLO	green		no reference			ITA388	ITA388-G001	VITIS VINIFERA LINNE	SUBSP. VINIFERA	GREECE	2007
ABENDROETE	green	AROMRIESLING	yes	637		DEU098	DEU098-1980-117	VITIS VINIFERA LINNE	SUBSP. VINIFERA	FRANCE	2000
ABENDROETE	green	AROMRIESLING	yes	637		DEU098	DEU098-1980-117	VITIS VINIFERA LINNE	SUBSP. VINIFERA	FRANCE	2001
Acini piccoli	black	Trevisana nera	yes		misnomer	ITA360	ITA360-516	VITIS VINIFERA LINNE	SUBSP. VINIFERA	ITALY	2009
Admirable de	green	Admirable de	yes	6R	true name	FR A139	FR A139-814Mh1	VITIS VINIFERA	SUBSP.	FRANCE	2007



Figure 35: Excel file encompassing the characterization data of 2748 accessions.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Export characterisation data													
2														
3	Workpackage	1-INSTCODE	2-ACCENUM	11-ACCENAR	A-VARIETY	B-BERRY CO	year of desc	OIV001	OIV003	OIV004	OIV006	OIV007	OIV008	OIV016
1424	WP2	FRA139	FRA139-0Mtg	Burdigala	Cépage non i	BLACK	2009	5	3	7	3	2	1	1
1425	WP2	FRA139	FRA139-0Mtg	Inconnu Cors	Cépage non i	BLACK	2009	5	5	7	5	3	3	1
1426	WP2	FRA139	FRA139-0Mtg	Cabernet gou	Cépage non i	BLACK	2008	5	2	7	3	3	2	1
1427	WP2	FRA139	FRA139-0Mtg	Cahours	Cépage non i	BLACK	2008	5	3	7	3	1	1	1
1428	WP2	FRA139	FRA139-0Mtg	Camarauou bl	Camarauou fer	GREEN	2007	5	1	9	3	2	2	1
1429	WP2	FRA139	FRA139-0Mtg	Cayam	Cépage non i	GREEN	2008	5	1	9	3	3	3	1
1430	WP2	FRA139	FRA139-0Mtg	Chacoli noir	Cépage non i	BLACK	2008	5	1	7	3	3	1	1
1431	WP2	FRA139	FRA139-0Mtg	Chasselas ro	Cépage non i	ROSE	2008	5	5	5	5	3	3	1
1432	WP2	FRA139	FRA139-0Mtg	Cruixen	Cépage non i	BLACK	2008	5	5	7	3	1	1	1
1433	WP2	FRA139	FRA139-0Mtg	Inconnu blanc	Cépage non i	GREEN	2008	5	5	7	1	1	1	1
1434	WP2	FRA139	FRA139-0Mtg	Inconnu Marr	Cépage non i	BLACK	2008	5	5	7	3	3	1	1
1435	WP2	FRA139	FRA139-0Mtg	Inconnu n°53	Cépage non i	BLACK	2008	5	1	7	3	2	1	1
1436	WP2	FRA139	FRA139-0Mtg	Kriperlé préc	Cépage non i	GREEN	2008	5	1	9	1	3	3	1
1437	WP2	FRA139	FRA139-0Mtg	Kriperlé tardi	Cépage non i	GREEN	2008	5	3	9	3	2	2	1
1438	WP2	FRA139	FRA139-0Mtg	Madeleine Cé	Cépage non i	GREEN	2009	5	3	5	5	2	1	1
1439	WP2	FRA139	FRA139-0Mtg	Malvasia bian	Cépage non i	GREEN	2009	5	1	5	3	2	1	1
1440	WP2	FRA139	FRA139-0Mtg	Malvoisie de I	Cépage non i	GREEN	2009	5	1	7	3	3	1	1
1441	WP2	FRA139	FRA139-0Mtg	Notre dame	Cépage non i	BLACK	2009	5	1	7	5	2	1	1
1442	WP2	FRA139	FRA139-0Mtg	Péridac	Cépage non i	BLACK	2009	5	1	5	5	3	2	1
1443	WP2	FRA139	FRA139-0Mtg	Belle Denise	Cépage non i	BLACK	2008	5	5	9	3	2	1	1
1444	WP2	FRA139	FRA139-0Mtg	Plant Baron T	Cépage non i	BLACK	2009	5	5	7	3	1	1	1
1445	WP2	FRA139	FRA139-0Mtg	Plant de Brur	Cépage non i	BLACK	2008	5	1	7	3	3	2	1

Figure 36: Search for the information gathered by description/evaluation of minor varieties maintained on-farm.

**Work package III | On farm evaluation**

Note: either chose option A or B.

**A : Accession table listing**

Listing of the complete table of varieties studied.

**B : Specific search**

Note: use the list fields to select the search criteria. Use % as wildcard at the beginning of a keyword for searching for the word with multiple beginnings.

Variety name:

Origin of the data:

Country of origin of the variety:

Search    Reset

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• WP II  
• On farm maintenance  
• Vitis sylvestris populations  
• Vitis sylvestris plants  
• WP V  
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Login successful  
DEU098    Logout

Figure 37: Data can be downloaded section-wise.

**Work package III | On farm evaluation**

Search criterion : all varieties  
Search result : 56 ( 1 -- 56 )

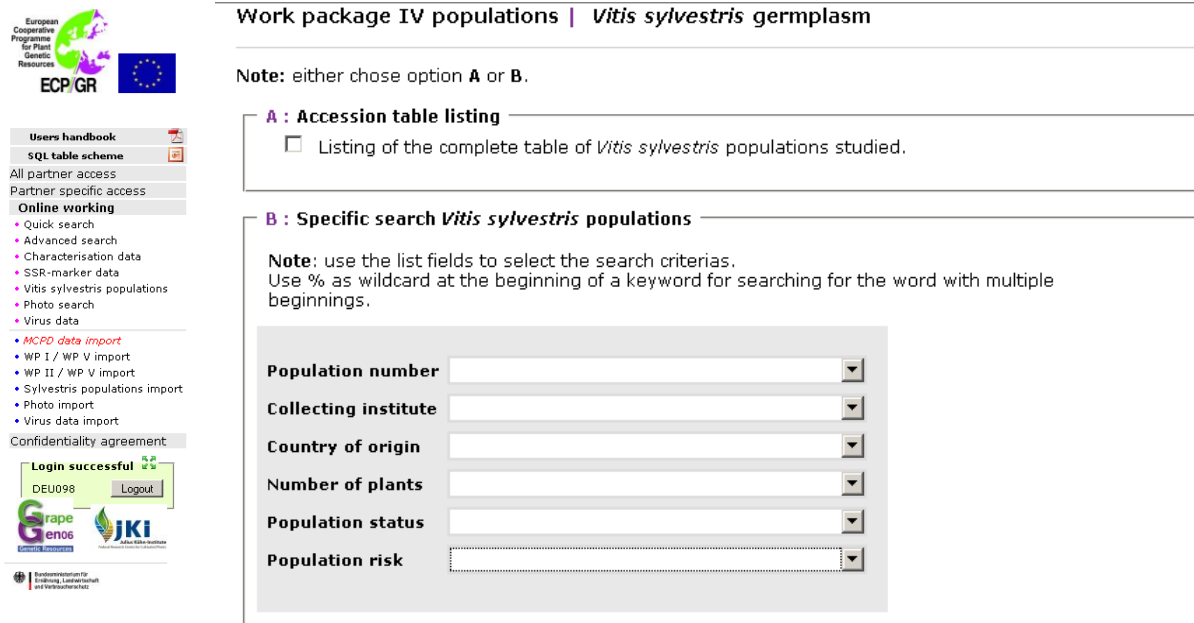
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Variety name (access to data)	Color of berry skin	Holding institution	Country of origin of the variety	Download On farm data (PDF-File)
Aghedene	green yellow	CRA - Centro di ricerca per la viticoltura, #6, (in collaboration with CRA - Unità di ricerca per la Viticoltura (ITA372))	Italy	view
Albillo	green yellow	I.M.I.D.R.A. Partner 3	Spain	view
Arcè	blue dark	University of Verona	Italy	view
Babica	blue dark	Faculty of Agriculture, University of Zagreb	Croatia	view
Barsagliana	blue dark	CRA - Centro di ricerca per la viticoltura, #6, (in collaboration with CRA - Unità di ricerca per la Viticoltura (ITA372))	Italy	view
Berzamina	blue dark	CRA - Centro di ricerca per la viticoltura, #6, (in collaboration with CRA - Unità di ricerca per la Viticoltura (ITA372))	Italy	view
Brajčica bijela		Faculty of Agriculture, University of Zagreb	Croatia	view
Brambana	blue dark	CRA - Centro di ricerca per la viticoltura, #6, (in collaboration with CRA - Unità di ricerca per la Viticoltura (ITA372))	Italy	view
Capolongo	green yellow	CRA - Centro di ricerca per la viticoltura, #6, (in collaboration with ARSIAL)	Italy	view
Casetta	blue dark	Istituto Agrario di S. Michele a/A	Italy	view
Cjavalgiàn	blue dark	CRA - Centro di ricerca per la viticoltura, #6, (in collaboration with CRA - Unità di ricerca per la Viticoltura (ITA372))	Italy	view
Crepolino	green yellow	CRA - Centro di ricerca per la viticoltura, #6, (in collaboration with CRA - Unità di ricerca per la Viticoltura (ITA372))	Italy	view
Cuneute		CRA - Centro di ricerca per la viticoltura, #6, (in collaboration with CRA - Unità di ricerca per la Viticoltura (ITA372))	Italy	view

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• On farm maintenance  
• Vitis sylvestris populations  
• Vitis sylvestris plants  
• WP V  
Partner specific access  
Confidentiality agreement  
Login successful  
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Figure 38: A listing of the *Vitis sylvestris* populations studied is to be obtained by ticking the case of option A. Specific search offers option B.



**Work package IV populations | *Vitis sylvestris* germplasm**

**Note:** either chose option A or B.

**A : Accession table listing**

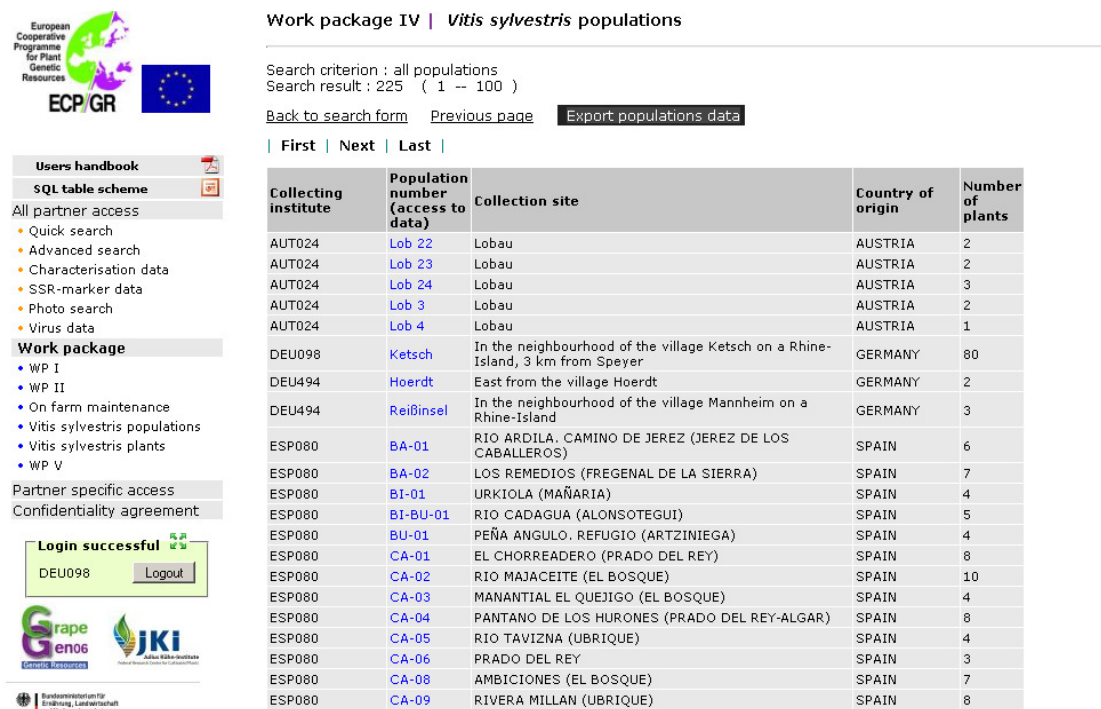
Listing of the complete table of *Vitis sylvestris* populations studied.

**B : Specific search *Vitis sylvestris* populations**

**Note:** use the list fields to select the search criterias.  
Use % as wildcard at the beginning of a keyword for searching for the word with multiple beginnings.

Population number: [dropdown]  
 Collecting institute: [dropdown]  
 Country of origin: [dropdown]  
 Number of plants: [dropdown]  
 Population status: [dropdown]  
 Population risk: [dropdown]

Figure 39: Clicking on the population identifier leads to the description of the *Vitis sylvestris* population site, see figure 40.



**Work package IV | *Vitis sylvestris* populations**

Search criterion : all populations  
 Search result : 225 ( 1 -- 100 )

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Collecting institute	Population number (access to data)	Collection site	Country of origin	Number of plants
AUT024	<a href="#">Lob 22</a>	Lobau	AUSTRIA	2
AUT024	<a href="#">Lob 23</a>	Lobau	AUSTRIA	2
AUT024	<a href="#">Lob 24</a>	Lobau	AUSTRIA	3
AUT024	<a href="#">Lob 3</a>	Lobau	AUSTRIA	2
AUT024	<a href="#">Lob 4</a>	Lobau	AUSTRIA	1
DEU098	<a href="#">Ketsch</a>	In the neighbourhood of the village Ketsch on a Rhine-Island, 3 km from Speyer	GERMANY	80
DEU494	<a href="#">Hoerdt</a>	East from the village Hoerdt	GERMANY	2
DEU494	<a href="#">Reiðinsel</a>	In the neighbourhood of the village Mannheim on a Rhine-Island	GERMANY	3
ESP080	<a href="#">BA-01</a>	RIO ARDILA. CAMINO DE JEREZ (JEREZ DE LOS CABALLEROS)	SPAIN	6
ESP080	<a href="#">BA-02</a>	LOS REMEDIOS (FREGENAL DE LA SIERRA)	SPAIN	7
ESP080	<a href="#">BI-01</a>	URKIOLA (MAÑARIA)	SPAIN	4
ESP080	<a href="#">BI-BU-01</a>	RIO CADAGUA (ALONSOTEGUI)	SPAIN	5
ESP080	<a href="#">BU-01</a>	PEÑA ANGULO. REFUGIO (ARTZINIEGA)	SPAIN	4
ESP080	<a href="#">CA-01</a>	EL CHORREADERO (PRADO DEL REY)	SPAIN	8
ESP080	<a href="#">CA-02</a>	RIO MAJACEITE (EL BOSQUE)	SPAIN	10
ESP080	<a href="#">CA-03</a>	MANANTIAL EL QUEJIGO (EL BOSQUE)	SPAIN	4
ESP080	<a href="#">CA-04</a>	PANTANO DE LOS HURONES (PRADO DEL REY-ALGAR)	SPAIN	8
ESP080	<a href="#">CA-05</a>	RIO TAVIZNA (UBRIQUE)	SPAIN	4
ESP080	<a href="#">CA-06</a>	PRADO DEL REY	SPAIN	3
ESP080	<a href="#">CA-08</a>	AMBICIONES (EL BOSQUE)	SPAIN	7
ESP080	<a href="#">CA-09</a>	RIVERA MILLAN (UBRIQUE)	SPAIN	8

Figure 40: Description of the *Vitis sylvestris* population site.

**Vitis sylvestris germplasm - Populations**

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Populations	
Population number	Ketsch
Institute code	DEU098
Decoded collecting institute	
Population name	
Country of origin	Germany

Population site data	
Population site	
Location of population site	In the neighbourhood of the village Ketsch on a Rhine-Island, 3 km from Speyer
Latitude of population site	492202N
Longitude of population site	0083120E
Elevation of population site	95
Number of plants	60
Number of female plants	
Number of male plants	
Number of <i>Vitis vinifera</i> subsp. <i>vinifera</i> near population	
Number of other <i>Vitis</i> species near population	
Distance between <i>Vitis vinifera</i> subsp. <i>vinifera</i> / other <i>Vitis</i> species and <i>Vitis sylvestris</i> population	2500
Population status (very bad=1, bad=3, regular=5, good=7, very good=9)	5
Population risk (very low=1, low=3, medium=5, high=7, very high=9)	5
Reasons for population status and risk	
Land owner	State of Baden-Württemberg

Figure 41: A listing of the *Vitis sylvestris* plants studied is to be obtained by ticking the case of option A. Specific search offers option B.

**Work package IV plants | *Vitis sylvestris* germplasm**

**Note:** either chose option **A** or **B**.

**A : Accession table listing**

Listing of the complete table of *Vitis sylvestris* plants studied.

**B : Specific search *Vitis sylvestris* plants**

**Note:** use the list fields to select the search criterias.  
Use % as wildcard at the beginning of a keyword for searching for the word with multiple beginnings.

Population number

Collecting institute

Country of origin

Accession number

Color of berry skin

Plant sex

Figure 42: Listing of the *Vitis sylvestris* plants studied.

**Work package IV | *Vitis sylvestris* plants**

Search criterion : all plants  
Search result : 631 ( 1 -- 100 )

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Collecting number (access to data)	Collecting institute	Population number	Accession number	Color of berry skin	Plant sex
BA 1,1	ESP080	BA-01	ESP080-BGV CAM3064	black	
BA 1,6	ESP080	BA-01	ESP080-BGV CAM3063	black	
BA 2,1	ESP080	BA-02	ESP080-BGV CAM3062		
BA 2,2	ESP080	BA-02	ESP080-BGV CAM3061		
BA 2,3	ESP080	BA-02	ESP080-BGV CAM3060	black	
BA 2,5	ESP080	BA-02	ESP080-BGV CAM3059		
BA 2,6	ESP080	BA-02	ESP080-BGV CAM3058		
BI 1,1	ESP080	BI-01	ESP080-BGV CAM3179		
BI 1,2	ESP080	BI-01	ESP080-BGV CAM3178		
BI 1,3	ESP080	BI-01	ESP080-BGV CAM3177	black	
BI 1,4	ESP080	BI-01	ESP080-BGV CAM3199	black	
BI-BU 1,1	ESP080	BI-BU-01	ESP080-BGV CAM3184		
BI-BU 1,2	ESP080	BI-BU-01	ESP080-BGV CAM3183		
BI-BU 1,3	ESP080	BI-BU-01	ESP080-BGV CAM3182		

Figure 43: Description of individual plants is to be obtained via “photos”, “characterization data,” and “SSR-marker-data”.

***Vitis sylvestris* germplasm - Plants**

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**Plants**

Collecting number	BA 1,1
Population number	BA-01
Accession number	BA 1,1
Institute code	ESP080
Acquisition date	
Color of berry skin	black
Plant sex	
Country of origin	SPAIN
Photos	
Characterisation data	2008
SSR-marker data	yes

**Collecting site data**

**Collecting site**

Location of collecting site	RIO ARDILA, CAMINO DE JEREZ (JEREZ DE LOS CABALLEROS)
Latitude of collecting site	
Longitude of collecting site	
Elevation of collecting site	
Collecting date	
Collecting / acquisition source	
Duplication site	
Decoded collecting institute	

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### 3.3 The partner specific access level

On the **partner specific access** level import of MCPD, characterisation, SSR-marker, virus and *Vitis sylvestris* population and plant data and photos is carried out.

Import of on-farm management data is carried out by the European *Vitis* Database manager.

#### **Attention:**

##### MCPD data import:

The objective is to document the genotypes maintained in the partners' grapevine collections. With each upload of MCPD data (reflecting the up to date inventory of the grapevine collection) the previous MCPD data are deleted. As a consequence the complete MCPD data of your collection always has to be uploaded.

##### Characterization data import:

During import procedure data are overwritten if the accession number and the year of description are identical.

Data of new accessions or different years are added.

##### SSR-marker data and virus data import:

During import procedure data are overwritten if the accession number is identical.

Data of new accessions are added.

##### Photo import:

Full sized photos are to be imported. They will be used to produce the variety describing pdf-document, see figure 15. Smaller sized photos are used for overview. By zooming photographs are enlarged, provided that the original size of the photograph was uploaded.

On-line data set modification of **MCPD data** has been implemented on this level too. Addition, adjustment and deletion of entries are possible.

##### Guidelines with respect to the accession number

The **accession number** is the **primary key** of the European *Vitis* Database. For this reason each partner has to assign to each accession a specific number, which needs to be unique and never reused. As a consequence only MCPD-data with accession numbers are accepted for data import.

Each accession number has to start with the institute code<sup>(1)</sup> to avoid accidental multiple occurrences of the same number in different grapevine collections.

It should be independent of any accession or variety specific information to avoid subsequent changes of the accession number.

**Syntax: [your institute code-plus up to 50 characters]; Example: DEU098-2003-012.**

All accession specific information (descriptor data, photographs, SSR-marker data, virus status etc.) is linked to the **accession number**.

---

<sup>1</sup> These numbers or codes are available from <http://apps3.fao.org/wiews> for registered WIEWS users. From the Main Menu select: 'PGR' and 'download'. If new Institute Codes are required, they can be generated online by national WIEWS correspondents, or by the FAO WIEWS administrator [Stefano.Diulgheroff@fao.org].

### 3.3.1 Import of MCPD data

Figure 44: The back button of the browsers can not be deactivated. During data import this button needn't to be touched.



Figure 45: Search of the MCPD data excel file in your directory. Click on upload.



Figure 46: If the header contains field names which are not recognized by the program, the user is able to adjust the header by selecting the appropriate field name or to ignore the entire column.

**Upload MCPD - Data**

- Upload your excel file here
- Your uploaded file: (first 10 rows)

Itm	Pts select manually...	INSTCODE	ACCENUMB
1	GENUS	DEU099	DEU098-2006-148
2	ID_VITIS	DEU098	DEU098-2006-090
3	INSTCODE	DEU098	DEU098-2006-091
4	LATITUDE	DEU098	DEU098-2006-149
5	LINK_TO_KENN_NR	DEU098	DEU098-2006-150
6	LONGITUDE	DEU098	DEU098-2006-092
7	ORIGCTY	DEU098	DEU098-2006-093
8	OTHERNUMB	DEU098	DEU098-2006-094
9	PARTNER_ACCESSION_NUMBER	DEU098	DEU098-1980-117
10	REMARKS	DEU098	DEU098-1980-117

  - There is/are 1 column(s) which need to be assigned. Please click on the drop down menu to select the corresponding field name.
  - Click into table to separate header from data. Click on first data row.
- save into database  or cancel upload

Figure 47: If all columns are correctly assigned, the user has to click on the first data row in his table.

**Upload MCPD - Data**

- Upload your excel file here
- Your uploaded file: (first 10 rows)

Itm	TRUENESS_TO_TYPE	INSTCODE	ACCENUMB
1	TRUENESS_TO_TYPE	DEU099	DEU098-2006-148
2	not checked	DEU098	DEU098-2006-090
3	not checked	DEU098	DEU098-2006-091
4	not checked	DEU098	DEU098-2006-149
5	not checked	DEU098	DEU098-2006-150
6	not checked	DEU098	DEU098-2006-092
7	not checked	DEU098	DEU098-2006-093
8	not checked	DEU098	DEU098-2006-094
9	not checked	DEU098	DEU098-1980-117
10	not checked	DEU098	DEU098-1980-117

  - All columns assigned
  - Click into table to separate header from data. Click on first data row.
- save into database  or cancel upload

Figure 48: Different colours indicate the separation of header (red) and data rows (yellow). By clicking on “save into database” the MCPD data import starts.

**Upload MCPD - Data**

1. Upload your excel file here

2. Your uploaded file: (first 10 rows)

itm.	TRUENESS_TO_TYPE	INSTCODE	ACCENUMB
1	TRUENESS_TO_TYPE	DEU099	ACCENUMB
2	not checked	DEU099	DEU098-2006-148
3		DEU098	DEU098-2006-090
4		DEU098	DEU098-2006-091
5	not checked	DEU098	DEU098-2006-149
6	not checked	DEU098	DEU098-2006-150
7		DEU098	DEU098-2006-092
8		DEU098	DEU098-2006-093
9		DEU098	DEU098-2006-094
10	not checked	DEU098	DEU098-1980-117

Login successful  
 DEU098

The on-line import program for MCPD data will interrogate most of the criteria on consistency with predetermined expressions, because the same spelling is fundamental for retrieving identical hits. For example for the criteria like *Vitis* species, berry colour and use the same expressions have to be applied and they need to follow the same spelling. Criteria like acquisition date, year of breeding, longitude, latitude and institute codes have to meet the indicated requirements with respect to field length and field composition.

Figure 49: Interactive window ensuring the correct data import. If the same correction respectively adaptation needs to be carried out twice or more, tick the case “correct all with the same error”.

**Upload MCPD - Data**

**Status of MCPD data to be uploaded**  
 The data of 23 accessions are matching the *Vitis* database requirements.  
 The data of 9 accessions have to be revised.

**MCPD data to be revised**  
 To modify your MCPD data please see the three options below:

- Adjustment:** Click on the "error" message (e.g. BERRY\_COLOR) to adjust and to save your data. Your data set will be checked again.
- Deletion of an accession:** Click on the icon in front of the row to delete the complete accession. **Attention:** Any record (data, photos) linked to the accession will be deleted as well.
- Abort of import:** If too many data sets have to be adjusted you may want to stop the import and revise the MCPD data in your excel file. Click on the button 'cancel import' below.

All "errors" need to be adjusted to pass to the next step.

Row	ACCENUMB
10	DEU098-1980-117
22	DEU098-1980-312
31	DEU098-1988-063
33	DEU098-1993-133
3	DEU098-2006-090
4	DEU098-2006-091
9	DEU098-2006-094
2	DEU098-2006-148
5	DEU098-2006-149

**Please correct the LATITUDE**

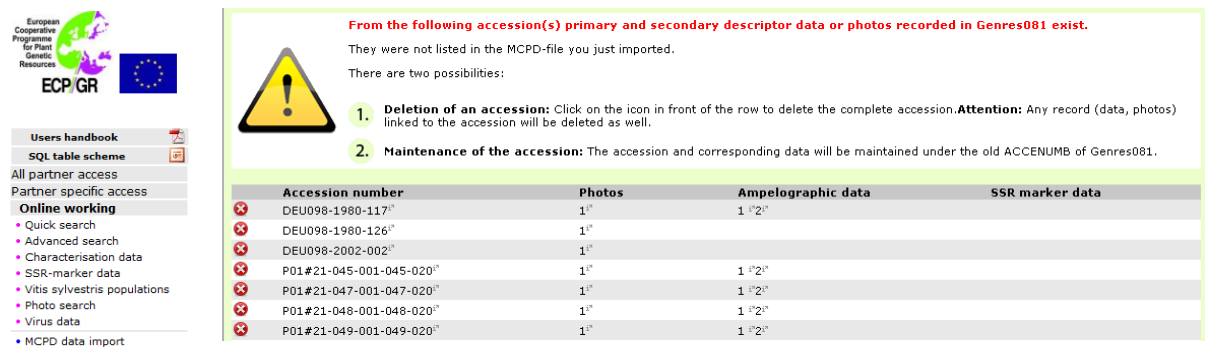
LATITUDE has max. 7 characters in database  
 Format: Degree (2 digits) minutes (2 digits) seconds (2 digits) N (North) or S (South),  
 Example: 011530N or 4531--S

correct all with same error  transfer the information to **remarks** field

INSTCODE: DEU099  
 BERRY\_COLOR: R  
 COUNTRY\_OF\_ORIGIN\_OF\_THE\_VARIETY: HUNg  
 COLLSRC: 19



Figure 50: In case that accessions which had been described before were not listed in the MCPD data import file and the characterization data, SSR-marker data or photos are in danger to get lost, this warning message pops up. You either can delete or maintain the accession respectively check your import file.



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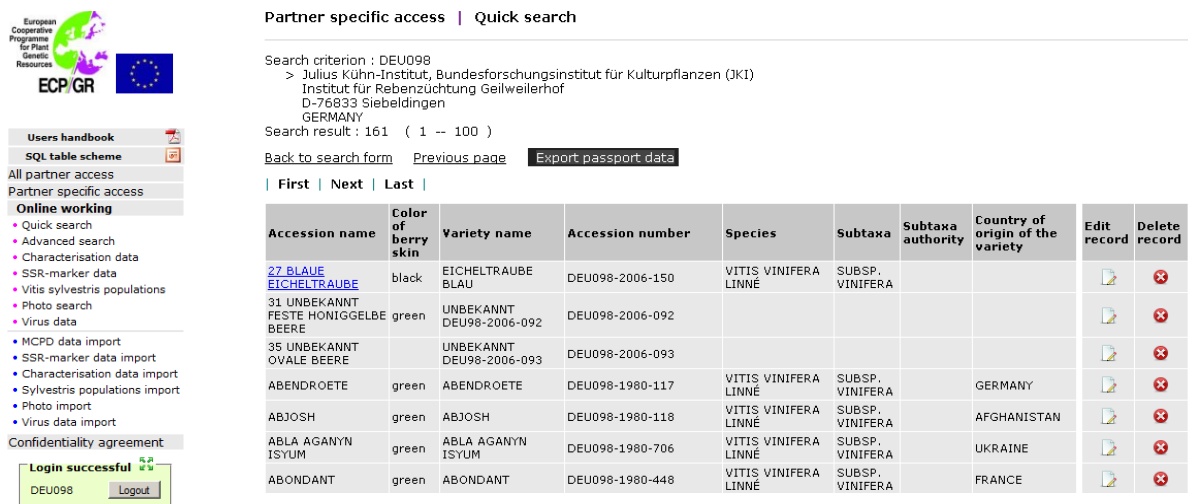
**From the following accession(s) primary and secondary descriptor data or photos recorded in Genres081 exist.**  
They were not listed in the MCPD-file you just imported.  
There are two possibilities:

- 1. Deletion of an accession:** Click on the icon in front of the row to delete the complete accession. **Attention:** Any record (data, photos) linked to the accession will be deleted as well.
- 2. Maintenance of the accession:** The accession and corresponding data will be maintained under the old ACCENUMB of Genres081.

Accession number	Photos	Ampelographic data	SSR marker data
DEU098-1980-117 <sup>1</sup>	1 <sup>1</sup>	1 1 <sup>2</sup>	
DEU098-1980-126 <sup>1</sup>	1 <sup>1</sup>		
DEU098-2002-002 <sup>1</sup>	1 <sup>1</sup>		
P01#21-045-001-045-020 <sup>1</sup>	1 <sup>1</sup>	1 1 <sup>2</sup>	
P01#21-047-001-047-020 <sup>1</sup>	1 <sup>1</sup>	1 1 <sup>2</sup>	
P01#21-048-001-048-020 <sup>1</sup>	1 <sup>1</sup>	1 1 <sup>2</sup>	
P01#21-049-001-049-020 <sup>1</sup>	1 <sup>1</sup>	1 1 <sup>2</sup>	

### 3.3.2 Interactive MCPD data set modification

Figure 51: Via quick search and advanced search the partners have access to their own data only. With respect to MCPD data modifications can be carried out via “Edit record”. Single data records can be deleted as well.



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Virus data  
MCPD data import  
SSR-marker data import  
Characterisation data import  
Sylvestris populations import  
Photo import  
Virus data import

Confidentiality agreement  
Login successful  
DEU098 Logout

Partner specific access | Quick search

Search criterion : DEU098  
> Julius Kühn-Institut, Bundesforschungsanstalt für Kulturpflanzen (JKI)  
Institut für Rebenzüchtung Geilweilerhof  
D-76833 Siebeldingen  
GERMANY

Search result : 161 ( 1 -- 100 )

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Accession name	Color of berry skin	Variety name	Accession number	Species	Subtaxa	Subtaxa authority	Country of origin of the variety	Edit record	Delete record
<a href="#">27 BLAUE EICHELTRAUBE</a>	black	EICHELTRAUBE BLAU	DEU098-2006-150	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA				
31 UNBEKANNT FESTE HONIGGELBE BEERE	green	UNBEKANNT DEU98-2006-092	DEU098-2006-092						
35 UNBEKANNT OVALE BEERE		UNBEKANNT DEU98-2006-093	DEU098-2006-093						
ABENDROETE	green	ABENDROETE	DEU098-1980-117	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		GERMANY		
ABJOSH	green	ABJOSH	DEU098-1980-118	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		AFGHANISTAN		
ABLA AGANYN ISYUM	green	ABLA AGANYN ISYUM	DEU098-1980-706	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		UKRAINE		
ABONDANT	green	ABONDANT	DEU098-1980-448	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		FRANCE		

Figure 52: On-line data set processing: The first MCPDs and the *Vitis* specific criteria are to be found below.

Form according to FAO/IPGRI Multi-Crop Passport Descriptors

**0. Trueness to type**  
 yes  
 no  
 not checked  
 uncertain  
 no reference

**1. Institute Code**  
 FAO Institute Code of the institute where the Accession is maintained.  
 Example: DEU098

**2. Accession number**  
 This number serves as a unique identifier for accessions within a genebank collection, and is assigned when a sample is entered into the genebank collection.  
 Example: CGN00254

**3. Collecting number**  
 Original number assigned by the collector(s) of the sample, normally composed of the name or initials of the collector(s) followed by a number. This number is essential for identifying duplicates held in different collections.  
 Example: FA90-110

**4. Collecting institute code**  
 Code of the Institute collecting the sample. If the holding institute has collected the material, the collecting institute code (COLLCODE) should be the same as the holding institute code (INSTCODE).  
 Example: DEU098

**5. Genus / Species / Species authority / Subtaxa / Subtaxa authority**  
 Genus name for taxon, in latin. Initial uppercase letter required.

**9. Specific epithet portion of the scientific name, in latin, in lowercase letters.**  
 The authority for the species name.  
 Example: *Vitis vinifera* Linnic's subsp. *vinifera*

**10. Common crop name**  
 Name of the crop in colloquial language, preferably English.  
 Example: *malting barley*

wine grape  
 table grape  
 raisin grape  
 rootstock  
 ornamental grape  
 wild grape

**11. Accession name**  
 Either a registered or other formal designation given to the accession. First letter uppercase. Multiple names separated with semicolon without space.  
 Example: *Rheinische Vorgebirgsstrauben, Emma, Avlon*

**12. Acquisition date**  
 Date on which the accession entered the collection as YYYYMMDD. Missing data (MM or DD) should be indicated with hyphens. Leading zeros are required.  
 Example: 1968-01-01  
 Example: 20000620

DEU098

DEU098-2001-090

VITIS VINIFERA LINNÉ SUBSP. VINIFERA

PICOLIT

2001

.....

**A. Variety Name**  
 Name of the variety, after it has been identified with certainty  
 Example: *Prokupaz*

**B. Berry color**  
 Color of the berry skin: B (white), N (black), Rs (rose), G (grey) and Rg (red)  
 Example: *Rg*

black (N)  
 black-grey (N-G)  
 black-red (N-RG)  
 black-violet (N-V)  
 green (B)  
 green-black (B-N)  
 green-grey (B-G)  
 green-red (B-RG)  
 green-rose (B-RS)  
 grey (G)  
 grey-rose (G-RS)  
 red (RG)  
 red-violet (RG-V)  
 rose (RS)  
 rose-violet (RS-V)  
 violet (V)

**C. Country of origin of the variety**  
 Code of the country in which the variety originated  
 Example: *HRV*

**D. Year of crossing**  
 Year in which the variety was created as YYYY  
 Example: *1926*

**E. Variety number**  
 Link to Kenn-No.

**F. Confirmation by ampelography**  
 Example: *yes*

**G. Confirmation by SSR-markers**  
 Example: *yes*

**H. Confirmation by bibliography**  
 Example: *yes or bibliography reference*

**I. Bibliography (volume)**

**K. Bibliography (page)**

**L. Confirmation by others**

Partner accession number

ID-Vitis

**M. Remarks to the accession name**  
 (classification resp. evaluation of the accession name)

**N. Questionable variety**

BALAFANT

HUN - HUNGARY

22932

yes

synonym

synonym  
 monomer  
 homonym  
 dialectic term  
 alternative spelling  
 cannot be defined  
 true name

VB

### 3.3.3 Import of SSR-marker, characterization, virus and *Vitis sylvestris* population data

Import of the SSR-marker data, characterisation, virus and *Vitis sylvestris* population data is carried out according to figures 21 to 25.

No single data set processing is possible. Modifications (additions, deletions, changes) have to be carried out in the original excel file and then the file has to be uploaded again.

Every import replaces the previous data set of the accession. Characterisation data will be replaced if the accession number and the year of data recording are matching.

### 3.3.4 Photograph upload

For photo upload the file name has to match the required format: accenumb\_accename\_category (“\_additional text” is optional).jpg.

The original sized photo is uploaded. The program is creating a smaller sized photo for display on the screen and is maintaining the original size for printing.

Figure 53: Photo import module: search the photo file in your directory.

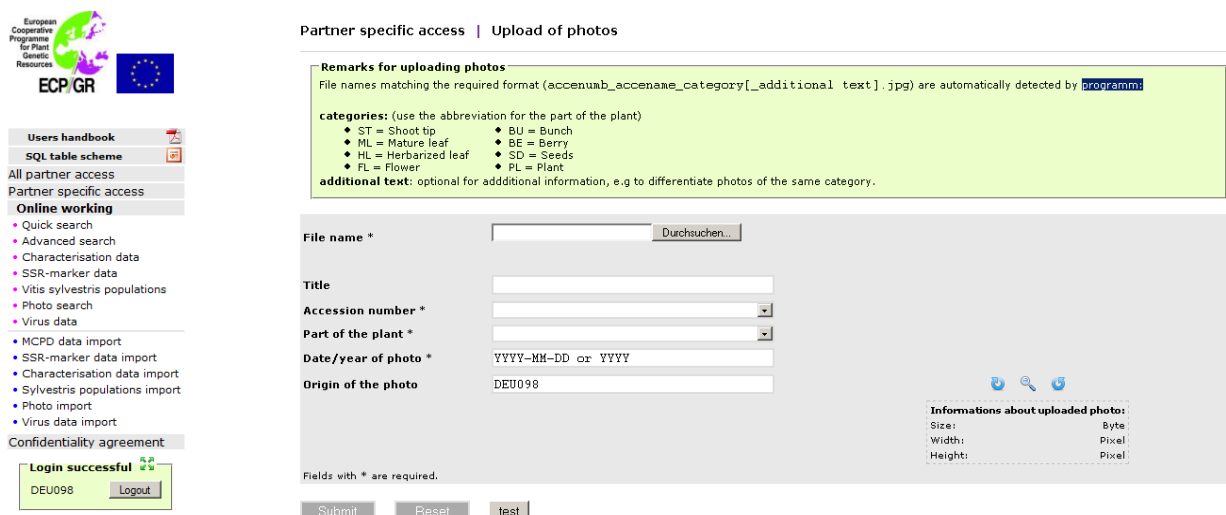
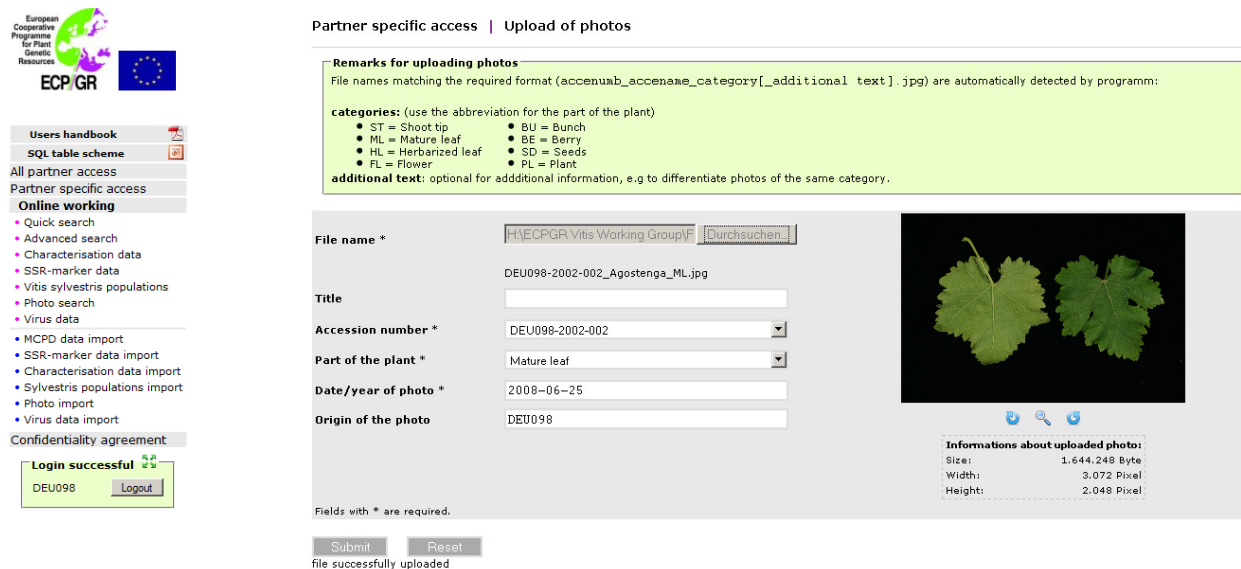


Figure 54: Via the file name of the photo, the accession number, the photo category (the year of the photo in case of digitized photos) and of course the origin of the photo are identified. By clicking on submit the photo is saved in the database.



### 3.4 Conclusion about data input, data set modification and export possibilities in the European *Vitis* Database.

	Online-import of data by partners	Data set modification by partners	Import of the data via JKI	Export of the data by partners
MCPD data	X	X		X
Characterisation data	X			X
SSR-marker data	X			X
Virus data	X			X
Photos	X			X
On-farm evaluation			X	X
<i>Vitis sylvestris</i> inventory and description	X			X

### 3.5 Confidentiality agreement:

SSR-marker data obtained by the partners within this project are loaded into the database and then kept confidential.

All partners of GrapeGen09 and the new participants providing SSR-marker data signed the confidentiality agreement and have thus access to the **all partner access** level. Further participants providing SSR-marker data are welcome.

Figure 55: Access to the confidentiality agreement. The document can be downloaded. For the full text of the confidentiality agreement, see annex 1.

#### The European *Vitis* Database

**Confidentiality Agreement for the participant** [PDF document](#)

Partner number: .....  
 Legal Name: .....

Definition of the parties concerned:  
 Database Manager: administrates the data of the partners  
 Data Owner: produces and supplies the data  
 User: partners of GrapeGen06 using other owners data

1. The database structure and software is property of the Database Managers of the Julius Kühn Institut (Zentrale Datenverarbeitung Quedlinburg and Institut für Rebenzüchtung Geilweilerhof) and constitute confidential information that the User is not allowed to copy for his own advantage, or to disclose to others, unless written agreement is given by Julius Kühn Institut.
2. Data are made available to the GrapeGen06 partners only with the objective of allowing comparison of alleles and of descriptors of cultivars and true-to-type work. Everyone is responsible for keeping private the accessions and the data and must not provide access to the data to other people outside GrapeGen06.
3. Data remain property (copyright) of the Data Owner, who exclusively decides how they can be

## 4 Conclusion

The objective was to create a European *Vitis* Database remaining active, even after termination of GrapeGen06.

Hence, besides the establishment of a tool for monitoring the long term preservation of the grapevine genetic resources, the main aim was to put into practice a “sustainable” database which is constantly maintained by the involved persons, which are the curators of grapevine collections.

Import modules for MCPD data, characterisation data, SSR-marker data, virus data, *Vitis sylvestris* population data and photos have been implemented, allowing the curators to upload and to modify their own data.

This technical innovation has the following practical consequences:

- (1) Partners are responsible for their own data and
- (2) It disburdens the database manager from service features.

The European *Vitis* Database is the first ECCDB database offering these forward-looking options.

After the runtime of GrapeGen06 the European *Vitis* Database will be ready to accept further partners and to include the inventories of further grapevine collections, providing the grapevine community with precious accession/variety specific information.

## 5 Varieties registered in Europe

Within GrapeGen06 a tremendous effort was made to establish a comprehensive list of the cultivars registered in European grape growing nations. This was done in the context of the Council Directive of the European Union from April 9, 1968 envisaging the creation of a “common catalogue of varieties”, defined as the sum of current national catalogues “on the marketing of material for the vegetative propagation” (Lacombe et al. 2011). This European Catalogue of Nationally Registered Varieties will be continuously updated.

The following figures show the possibilities to attain corresponding information, either as prepared documents or by search lists.

Figure 56: Article published by Lacombe et al. 2011 and six annexes sorting the grapevarieties registered in Europe according to different criteria.

The image shows a screenshot of a web application interface. On the left, there is a navigation menu with the following items: 'Users handbook', 'SQL table scheme', 'Public access', 'Descriptors/file formats', 'Institute codes', 'Important links', 'Contact', 'Disclaimer', 'Varieties registered in Europe', and 'Home page'. Below the menu is a login form with the text 'Login [ Case sensitive! ]', input fields for 'User name:' and 'Password:', and a 'Login' button. The main content area on the right is titled 'Public access | Varieties registered in Europe' and contains a header 'European Catalogue of Nationally Registered Varieties'. Below the header, there is a link to 'Grapevine European Catalogue: Towards a Comprehensive List' by Lacombe T et al., Vitis 50 (2), 65-68 (2011). Underneath, there is a section 'Annexes :' followed by a bulleted list of six annexes: Annex 1A (list of grape varieties in EU member states), Annex 1B (list for EU members and third countries), Annex 2A (index of official names), Annex 2B (index for EU members and third countries), Annex 3A (official national catalogues for each EU member state), and Annex 3B (official national catalogues for EU members and third countries).

Figure 57: Using the list fields specific search options were created. For example the variety number of the *Vitis* International Variety Catalogue (VIVC) assists to find out in which country and under which name the same variety is officially registered. The variety number of “Pinot gris” in the VIVC is “9275”.

Disclaimer

Varieties registered in Europe

Home page

**Login** [ Case sensitive! ]

User name:

Password:

Login

**In addition to the annexes of the publication above (2011), the National Catalogues are continuously updated. The search tool below allows to find the updated information provided by the GrapeGen06 partners.**

**Search data**

**Note:** use the list fields to select the search criterias.  
Use % as wildcard at the beginning of a keyword for searching for the word with multiple beginnings.

VIVC variety number:

National variety name:

National variety id:

National synonyms:

National species:

National color of berry skin:

National utilization:

Country of registration:

Year of update:

EU member:

Remarks:

Search    Reset






Figure 58: The table shows that via the VIVC variety number “9275” Pinot gris registration in European countries can be found even if the variety is officially registered under different “National variety names”.



**Users handbook**

**SQL table scheme**

Public access

- Quick search
- Advanced search
- Photo search
- Characterisation data
- SSR-marker data
- Virus data
- Catalogue of varieties
- On farm maintenance

Descriptors/file formats

Institute codes

Important links

Contact

Disclaimer


Varieties registered in Europe

Home page

| First | Last |

National variety name	National color of berry skin	National variety id	National synonyms	National species	National utilization	Year of update	EU member	VIVC prime name
Grauer Burgunder		AUT38	Pinot Gris / Ruländer		WINE GRAPE	2008	yes	<a href="#">PINOT GRIS</a>
Pino Gri / Pinot gris	GRIS	BGR099	???? ???	vinifera	WINE GRAPE	2009	yes	PINOT GRIS
Pinot Grigio	NOIR	MLT43	Pinot gris			2000	yes	PINOT GRIS
Pinot grigio G.	GRIS	ITA194	Grauer Burgunder / Grauburgunder / RULÄNDER* / PINOT GRIS** / PINOT***	vinifera	WINE GRAPE	2010	yes	PINOT GRIS
Pinot gris	GRIS	CH85	Grauburgunder / Pinot grigio / Malvoisie / Ruländer	vinifera	WINE GRAPE	2007	no	PINOT GRIS
Pinot Gris	GRIS	ESP164		vinifera	WINE GRAPE	2009	yes	PINOT GRIS
Pinot gris	GRIS	ROM82		vinifera	WINE GRAPE	2009	yes	PINOT GRIS
Pinot Gris	ROUGE	PRT325		vinifera	WINE GRAPE	2010	yes	PINOT GRIS
Pinot gris	NOIR	MDA65		vinifera	WINE GRAPE	2009	no	PINOT GRIS
Pinot gris G	GRIS	BEL23				2000	yes	PINOT GRIS
Pinot gris G	GRIS	FRA231		vinifera	WINE GRAPE	2010	yes	PINOT GRIS
Pinot gris G	GRIS	LUX10				2000	yes	PINOT GRIS
Pinot Gris G	GRIS	NLD30				2000	yes	PINOT GRIS
Pinot sivi	GRIS	HRV146		vinifera	WINE GRAPE	2009	no	PINOT GRIS
Rulandské sede	BLANC	CZE69	Pinot gris	vinifera	WINE GRAPE	2007	yes	PINOT GRIS
Rulandské šedé	BLANC	SVK29	Klevner			2000	yes	PINOT GRIS
Ruländer	BLANC	GBR37	Pinot gris	vinifera		2000	yes	PINOT GRIS
Ruländer	GRIS	RBE518	Grauburgunder / Grauer Burgunder / Pinot Grigio / Pinot Gris	vinifera	WINE GRAPE	2010	yes	PINOT GRIS
Ruländer G	GRIS	NLD39				2000	yes	PINOT GRIS
Sivi pinot		SVN46				2000	yes	PINOT GRIS
Szurkebarát	BLANC	HUN054			WINE GRAPE	2010	yes	PINOT GRIS

Figure 59: With a click on the national variety name in the previous table a comparison of entries of the VIVC and the corresponding National Catalogue is shown.



**Users handbook**

**SQL table scheme**

Public access

Descriptors/file formats

Institute codes

Important links

Contact

Disclaimer

**Varieties registered in Europe**

Home page

**Login [ Case sensitive! ]**

User name:

Password:

Login

**Public access | Varieties registered in Europe**

[Back to search form](#)   [Previous page](#)

VIVC prime name	PINOT GRIS
VIVC color of berry skin	GRIS
VIVC variety number	<a href="#">9275</a>
VIVC species	VITIS VINIFERA LINNÉ SUBSP. VINIFERA
VIVC sex of flowers	HERMAPHRODITE
VIVC utilization	WINE-GRAPE
Registered in EU	yes
Remarks modification VIVC	
National variety name registered	Pinot gris
National variety id	<a href="#">CH85</a>
National synonym registered	Grauburgunder / Pinot grigio / Malvoisie / Ruländer
Species country	vinifera
Color of berry skin country	G
Utilization country	WINE GRAPE
Country of registration (code)	SWITZERLAND (CHE)
EU member	no
Catalogue year of update	2007

**Additional remark:**

**Of course, the European *Vitis* Database still needs to be improved and bugs may arise. We appreciate suggestions and please inform us about any inconveniences or emerging errors.**

## 6 Annex 1



<b>Proposal acronym:</b>	GrapeGen06
<b>Project Duration:</b>	January 2007- December 2010

### Confidentiality Agreement for the participant

Partner number : .....
Legal Name: .....
.....

#### **Definition of the parties concerned:**

Database Manager: administrates the data of the partners

Data Owner: produces and supplies the data

User: partners of GrapeGen06 using other owners data

1. The database structure and software is property of the Database Managers of the Julius Kühn Institut (Zentrale Datenverarbeitung Quedlinburg and Institut für Rebenzüchtung Geilweilerhof) and constitute confidential information that the User is not allowed to copy for his own advantage, or to disclose to others, unless written agreement is given by Julius Kühn Institut.
2. Data are made available to the GrapeGen06 partners only with the objective of allowing comparison of alleles and of descriptors of cultivars and true-to-type work. Everyone is responsible for keeping private the accessions and the data and must not provide access to the data to other people outside GrapeGen06.
3. Data remain property (copyright) of the Data Owner, who exclusively decides how they can be used.
4. Data of accessions in the GrapeGen06 project of other Data Owners can be used by a User for comparison and true-to-type work, but not for publication nor for commercial use. If the User is interested to use other Owners' data for a publication, he needs to contact the Data Owner and ask for permission to use his data, in exchange of his name in the publication. He will not use the data for publication unless he has received a written consent by the data owner.
5. Access to the site is given only when a given user has submitted the requested data (see the Conclusions of the first GrapeGen06 meeting, 22 & 23 March 2007, annex 1). Exceptions can be made if a written and motivated request is made to the database manager as well as the data owner(s). The final decision is made by the data owner(s).



6. The database manager having access to all owners' data is not allowed to make use of the other owners' data. Exceptions can be made if a written and motivated request of the database manager is made to the data owner(s). The final decision is made by the data owner(s).
7. Data are produced with best diligence. They are provided "as is". They are accessible without any guarantee about their correctness, quality and approximation level.
8. Users remain responsible for the use they make of the retrieved information. JKI or the data owner cannot be held responsible for any damage resulting from an improper use of the data.

Name of person authorised to commit the organisation : .....

Function :

Date:

Authorised stamp and signature (mandatory) : .....

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