



European Vitis Database – Handbook

Contents

1	Introduction2
1.1	General remarks
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
2.2	Advanced search encompasses two data types: A: Passport descriptors and B:
• •	Characterisation descriptors
2.3	<i>Photo search</i> provides photos from the described accessions
2.4	<i>Characterisation</i> data leads to the ampelographic data of an described accessions and offers a delimited search as well
2.5	SSR-marker data access is possible by subscription. The conditions to be agreed upon
2.0	are specified. To subscribe you have to address to Erika Maul, as indicated in the text.
	A username and a password will be provided10
2.6	Virus data of most of the characterized accessions are available
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
20	agronomical characteristics and photos of the shoot tip, leaves and a bunch
2.0	<i>On-jurm maintenance</i> - of neglected varieties and of minor importance - by winggrowars represents a practicable alternative to its preservation in governmental
	granevine repositories. A granomical features of such kind of germulasm have been
	evaluated
2.9	Descriptors/file formats lead to both, the descriptors and the excel file format for
	descriptor recording
2.10	Institute codes mentioned in the MCPD data of the partners can be retrieved. Contact
	data of institute codes are provided20
3	Description of search and working tools on the partner access level
3.1	Annual update of MCPD data in EURISCO
3.2	The all partner access 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 GrapeGen0623
3.2.2	Access to the data of work packages I to V24
3.3	The partner specific access level29
3.3.1	Import of MCPD data
3.3.2	Interactive MCPD data set modification
3.3.3	Import of SSR-marker, characterization, virus and Vitis sylvestris population data 34
3.3.4	Photograph upload
3.4	Conclusion about data input, data set modification and export possibilities in the
	European Vitis Database
3.5	Confidentiality agreement:
4	Conclusion
5	Varieties registered in Europe
6	Annex 1
7	Annex 2: Figures 1 – 42

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:

<u>Particularity:</u> access to the data recorded in GrapeGen06 work packages I to V

Partner specific access:

<u>Particularities:</u> 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.

Cooperative	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.								
Genetic Resources ECP/GR									
	Download (or view): • Guidelines for the compilation of	f MCPD descriptors related to 'trueness to type'							
Users handbook 🗾 🕺	 What is 'trueness to type'. 	The b descriptors related to a deness to type.							
SQL table scheme 🦉									
Public access									
 Quick search Advanced search 	Genus, species	<u> </u>							
Photo search	Subtaxa	▼							
 Characterisation data SSR-marker data 	Subtaxa authority	×							
 Virus data 	Accession name								
 Catalogue of varieties <u>On farm maintenance</u> 	Country of origin of the variety	BULGARIA							
Descriptors/file formats	Holding institution	▼							
Institute codes									
Important links									
Contact									
Disclaimer	Search Reset								
Varieties registered in Europe	Ell Vitis - Copyright 1KI @ 2007								
Home page									

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

Cooperative	Public access Quick search													
Genetic Resource	Search criteria : BULGARIA Search result : 111 (1 100)													
	Back to searc	<u>h form</u>	Previous pa	ge										
	First Ne	xt La	st											
Users handbook		Color		Trueness		Remarks					Country of			
SQL table scheme 🦉	Accession	of	Variety	to type	Variety	to the	Holding	Accession number	Species	Subtava	origin of			
Public access	name	berry skin	name	of the variety	VIVC	accession name	institution	(access to data)	opecies	Subtaxa	the variety			
Advanced search	AHELOI	green		not checked	15821		DEU098	DEU098-1991-193	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	BULGARIA			
Characterisation data	Apyrène de Ruse	green	Apyrène de Roussé	yes	16237		FRA139	FRA139-2990Mtp1	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	BULGARIA			
 SSR-marker data Virus data 	Boba Hasan		Boba Hasan	yes			FRA139	FRA139-0Mtp1536	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	BULGARIA			
 Catalogue of varieties On farm maintenance 	BOUQUET	black		not checked	1608		DEU098	DEU098-1991-137	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	BULGARIA			
Descriptors/file formats	Ceaus x Bolgar 2	green	Ceaus x Bolgar 2	not checked			CZE041	CZE041-24V0100175	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	BULGARIA			
Important links	CERKOVSKO ZLTO	green	CERKOVSKO ZLTO	not checked	2392		DEU098	DEU098-1990-006	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	BULGARIA			
Contact Disclaimer	Cerven septenvrijski	rose	Cerven septenvrijski	not checked			CZE041	CZE041-24V0100275	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	BULGARIA			
Varieties registered in Europe	Chevka	black	Chevka	yes			FRA139	FRA139-0Mtp1539	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	BULGARIA			
Home page	Chiroka melnichka	black	Chiroka Melnichka = Melnik	yes	11838		FRA139	FRA139-2771Mtp1	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	BULGARIA			
	Dimiat	green	Dimiat	yes	5716		FRA139	FRA139-1666Mtp1	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	BULGARIA			
	DIMIAT	green					ITA388	ITA388-858	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	BULGARIA			
	DIMJAT	green		not checked	5716		ESP080	ESP080-BGVCAM1811	VITIS VINIFERA LINNÉ		BULGARIA			

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

Cooperative	Public access Quick search								
Genetic Resources ECP/GR	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.								
Users handbook 🛃	Download (or view): • Guidelines for the compilation of • What is 'trueness to type'.	of MCPD descriptors related to 'trueness to type'.							
SQL table scheme 🛛 🐺									
Public access									
 Quick search Advanced search 	Genus, species	•							
 Photo search 	Subtaxa								
 Characterisation data 	Subtaxa authority	•							
 SSR-marker data 	Subtaxa autionty								
 Virus data 	Accession name	Alfrocheiro							
Catalogue of varieties	Country of origin of the variety	•							
On farm maintenance	country of origin of the variety								
Descriptors/file formats	Holding institution	▼							
Institute codes									
Important links									
Contact	Search								
Disclaimer	Search								
Varieties registered in Europe	Ell Weig - Conversible IKI @ 2007								
Home page	- Copyright SKI @ 2007								

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

Constraint Constraint For Plant Beceperative ECCPL GR	Public acces Search criteria Search result Back to search	55 a:alfro :5 (<u>h form</u> t	Quick searce ocheiro 1 5) <u>Previous pa</u>	:h 1996		With a figure 4	click o 4 with 1	n the acc MCPD da	ession ata poj	name ps up.	;
Users handbook 💋 SQL table scheme 🗃 Public access	Accession name	Color of berry	Variety name	Trueness to type of the	Variet	Sion	fiolding	Accession number (access to data)	Species	Subtaxa	Country of origin of the
 Quick search Advanced search Photo search 	ALFROCHEIRO	black		ed	277	Indine	ESP080	ESP080- BGVCAM1192	VITIS VINIFERA LINNÉ		PORTUGAI
 Characterisation data SSR-marker data Virus data 	Alfrocheiro	black	Alf erro	yes	277		FRA139	FRA139-50Mtp1	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	PORTUGA
 Catalogue of varieties On farm maintenance 	Alfrocheiro preto	black					ESP074	P04#7326	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	SPAIN
Descriptors/file formats Institute codes	ALFROCHEIRO BRANCO	green	DOURADINHA				PRT051	PRT051-51610			PORTUGAL
Important links Contact	ALFROCHEIRO PRETO	black	ALFROCHEIRO	yes		synonym	PRT051	PRT051-52003			PORTUGAL
Disclaimer	Back to search	n form	Previous pa	age							

Figure 4: MCPD data of the accession "Alfrocheiro preto"

Cooperative	MCPD - Multi Crop Passpor	t Descriptor Data	
Genetic Resources ECP/GR	Back to search form Previous page	2	A click on the photo
	Common passport descriptors :		
-	Accession name	ALFROCHEIRO PRETO	number generates a
Users handbook 🗾	Color of berry skin	black	what a seller of the
SQL table scheme 🛛 🦉	Variety name	ALFROCHEIRO	photo gallery of the
Public access	Accession number	PRT051-52003	according and figure 5
 Quick search 	Acquisition date	1988	accession, see figure 5.
 Advanced search 	Holding institution	PRT051	
Photo search	Genus, species	VITIS VINIFERA LINNÉ	7
 Characterisation data SSP-marker data 	Subtaxa	SUBSP. VINIFERA	
• Virus data	Subtaxa autority		
 Catalogue of varieties 	Country of origin of the variety	PORTUGAL	
On farm maintenance	Breeder		
Descriptors/file formats	Pedigree		With a aliak on the year
nstitute codes	Year of breeding		with a click of the year
mportant links	Use (crop name)	WINE GRAPE	of characterisation or
Contact	Donor institute code	PRT079	of characterisation of
)isclaimer	Decoded breeding institute		"All" the recorded
ariaties registered in Europe	Decoded donor institute		The the recorded
uncues registered in Europe	MLS Status		notations are listed, see
Home page	AEGIS Status		
	Photos	4	figure 6.
	Trueness to type	yes	
-	Remarks to the accession name		
rape	Questionable variety		
	Characterisation data	2000 2001 All	
Genetic Resources	Virus status		
Bundesministerium für	Variety number VIVC		
and Varbrauchurschurz	Additional information		

Figure 5: Photo gallery of the accession "Alfrocheiro preto"



Figure 6: Characterisation data of the accession "Alfrocheiro preto"

European Cooperative Programme	Characteri	sation data							
Genetic Resources	<u>Back to sear</u>	<u>ch form</u> <u>Previous</u>	<u>page</u>						
	Commo	on passport descrip	tors						
	Accession	name	ALEROCHEIRO P	RETO					-
Users handbook 🛃	Accession r	number	PRT051-52003		A click	on	the que	estion	
SQL table scheme	Variety nar	ne			mark n	rov	ides the	notation	
Public access	Color of be	rry skin	Descriptor notations:		levels i	n 11	vorde h	ere of	
Quick search	Genus, spe	cies	1=closed			11 W			
Advanced search	Country of	origin of the varie	5=fully open		descriptor OIV 001.				
Photo search Characterisation data	Use (crop r	name)							
SSR-marker data	Holding insi			_					
• Virus data	Tear or des	cription	OK						
Catalogue of varieties									
On farm maintenance			All descri	ptors d	ata				
Descriptors/file formats									
Institute codes	Quanti	tative descriptors						/	
Important links					2000			2001	11
Contact	OIV Code	Descriptor		Notation	Notation text	~	Notation	Notation te:	xt \
Disclaimer	OIV 001	Young shoot: opening	g of the shoot tip	5	fully open	?	5	fully open	3
Varieties registered in Europe	OIV 003	Young shoot: intensit coloration on prostrat	y of anthocyanin te hairs of the shoot tip	5	medium	?	5	medium	?
Home page	OIV 004	Young shoot: density shoot tip	of prostrate hairs on the	7	high	3	7	high	?
Grape	OIV 006	Shoot: attitude (befor	re tying)	3	semi-erect	?	3	semi-erect	?
Genos VJKI	OIV 007	Shoot: color of the do	orsal side of internodes	1	green	?	1	green	?
Island Sealer Freedowerses	0IV 008	Shoot: color of the ve	entral side of internodes	1	green	?	1	green	?

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

European Cooperative	Public access Advanced search	
General Resources	Note: use the list fields to select the search criteria. Use % as wildcard at the beginning of a keyword for searching for the word beginnings.	with multiple
	- 1 · Dascoort descriptors	search by 23 MCPD
-	- Common passport descriptors	
Users handbook 🗾	Common passport descriptors	
SQL table scheme 🦉	status, germplasm storage, etc.	
Public access		
Quick search		search by 39MCPD
 Advanced search 	B : Characterisation descriptors	
Photo search Characterization data	Priority descriptors sea	rch for accessions with
 Characterisation data SSP-marker data 	Descriptors used in GrapeGenub ma	tching notations for up to
Virus data	All descriptors	terning notations for up to
Catalogue of varieties	48	characteristics.
• On farm maintenance		
Descriptors/file formats		
Institute codes	Continue Reset	
Important links		
Contact /	EU. <i>Vitis</i> - Copyright JKI © 2007	
Disclaimer		
(search for accessions w	vith (search for accessions with	th
matching notations for u	in to matching notations for un	to
14 characteristics, see th	68 characteristics.	
figure 7-9 below.		
Bundesministerium Tür Ernähnung, Land wirtschuft und Varbraucharschafz		

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

Public access | Advanced search

Quantitative descriptors

	EC	P/0	äR		145	
1	Users	han	dboo	ok		-
	SQL (able	sche	eme		100
Pub	olic a	cces	s			
• Q	uick	sear	ch			
• A	dvan	ced	sear	ch		
• P	hoto	sear	ch			
• C	hara	cteri	satio	n da	ta	
• S	SR-n	harkı 	er da	ata		
• •	irus (Jata		- ri - ti		
• 0	n far	m m	ainte	aneu anan	сэ се	
Doc	cript	ore	filo i	form	ate	
Inci	tituta	.015/	doc	onn	aus	
Imr	orta	nt li	nke			
Cor	ntact	ine m	1115			
Disi	laim	er				
		- -			_	
Vari	eties	regi	ster	ed in	Euro	pe
		Ho	me p	bage		
				-		

jKi

Centelle Resources

European Cooperative



Priority descriptors

Note: Quantitative descriptors: 1. To search for a range: use the lower and the upper value drop down list to select the desired expression level range. 2. 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.

OIV Code	Descriptor	Option1 value	Option2 value
019 016	Shoot: number of consecutive tendrils	-	-
019 051	Young leaf: color of upper side of blade (4th leaf)	•	-
OI¥ 067	Mature leaf: shape of blade	-	-
019 076	Mature leaf: shape of teeth	•	-
OI¥ 081-2	Mature leaf: petiole sinus base limited by vein	•	•
OI¥ 223	Berry: shape	-	-

6

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

Cooperative	Public access Advanced search										
Resources ECP/GR	Search criteria : 1. OIV 001 lo 2. OIV 004 lo 3. OIV 004 u 4. OIV 051 0 Search result :	ow valu ow valu pper v option1	Access to ampelographic data via the accession number								
Users handbook 🛛 📩	Jearch result, 2		1 100)			_					
SQL table scheme 🛛 🐱	<u>Back to search f</u>	orm	Previous page	2		7 /					
ublic access	First Next	Las	t								
• Quick search		Color				Country of		-			
• Advanced search • Photo search • Characterisation data	Accession name	of berry skin	Variety name	Holding institution	Accession number (access to ampelographic data)	origin of the variety	Trueness to type	Year of description			
• SSR-marker data • Virus data	1527-1-EM	green	1527-1-EM	CZE041	CZE041-24V0130047	FRANCE	not checked	2007-2009			
Catalogue of varieties	1540-51-EM	green	1540 - 51 - EM	CZE041	CZE041-24V0130050	FRANCE	not checked	2007-2009			
escriptors/file formats	34 - EM FDEY(BER.x RIP.)			GRC010	P07#B-7			1999			
nstitute codes	AGASFARK	black		HUN045	HUN045-49			2010			
mportant links	Airén	green		ESP074	P04#9184	SPAIN		1999			
ontact	Albariño	green		ESP074	P04#12048	SPAIN		2001			
isclaimer	Alipora	green		GRC010	P07#B-21	GREECE	yes	2000			
arieties registered in Europe	ALVADURÃO	green	ALVADURÃO	PRT051	PRT051-52114	PORTUGAL	yes	2008			
aneties registered in Europe	Aubun	black	Aubun	FRA139	FRA139-49Mtp14	FRANCE	yes	2001			
Home page	Augster			AUT024	AUTXX01-Leth-10						
	Avanà	black	Avanà	ITA360	ITA360-144	ITALY	yes	2007			
	Avarenchetto	black		ITA360	ITA360-215	ITALY	no reference	2009			
Grape SjKi	BAKATOR, PIROS TÜDOSZINU *	rose		HUN045	HUN045-65			2010			
Genetic Resources Pales Date - California	BANATI RIZLING	green		HUN045	HUN045-83			2010			
Bundesministerium für Enähnung, Landwirtschaft and Klansushare beit	Barbera 'd Davi	black	Barbera 'd Davi	ITA360	ITA360-179	ITALY	yes	2008			

Figure 9: Characterisation data of the accession "Aubun"

European Programme for Jamete Resources ECCP/GR	B B
Users handbook 🛛 📩	
SQL table scheme 🛛 🗖	
Public access	
Quick search	
 Advanced search 	
• Photo search	
 Characterisation data 	
SSR-marker data	
Virus data Catalogue of variation	Ŀ
On farm maintenance	
Descriptors /file formats	
Institute codes	_
Important links	
Contact	
Disclaimer	
Varieties registered in Europe	
Home page	
Grane A	
Genoe VIKI	

Bundesministerium für Ernähnung, Landwirtschaft und Varbrauchenschutz

Ampelographic data

lack to search form Previous page

Common passport descripto	rs
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

Quant	itative descriptors			
OIV Code	Descriptor	Notation	Notation text	
OIV 001	Young shoot: opening of the shoot tip	5	fully open	?
01V 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	?
01V 006	Shoot: attitude (before tying)	1	erect	?
OIV 007	Shoot: color of the dorsal side of internodes	2	green and red	?
800 VIO	Shoot: color of the ventral side of internodes	1	green	?
OIV 015-1	Shoot: distribution of anthocyanin coloration on the bud scales $% \label{eq:constraint}$?
0I¥ 015-2	Shoot: intensity of anthocyanin coloration on the bud scales	1	none or very weak	?
019 053	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.

European Cooperative	Public access Photo search								
ECP/GR	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.								
Users handbook 🛛 📩	Accession name								
SQL table scheme 🦉	Variety name								
Public access									
Quick search	Variety number VIVC								
 Advanced search 	Accession number								
 Photo search 									
 Characterisation data 	Origin of the photo								
• SSR-marker data	Part of the plant Bunch								
• Virus data									
Catalogue of varieties									
On farm maintenance									
Descriptors/file formats	Search Reset								
Institute codes									
Important links	ELL///ric - Convight 1/KT の 2007								
Contact									
Disclaimer									
Varieties registered in Europe									
Homo page									

Figure 10: Of 1181 accessions photos from bunches are available

Cooperative Programme	Public access	5 Pho	to search	(7:41	-1: -	1		£		
Genetic Resources	Search criterion Search result :	: Bunch 1181 (1 100)		W	duaa	d	k on the	pnoto o	1		
	Back to search I	form Pr	evious page		re	auce	a siz	e, me pr	ioto is			
	First Next	Last			er	large	ad e	e figure	11			
Users handbook 🗾				True	U	nargo	.u, 51	ce figure)		Part
SQL table scheme 🦉	Accession	Color of	Variety	to type						of origin	Rhoto	of
Public access	name	skin	name	of the	VIVC	accession	institution	access to data)	```	of the variety	Filoto	the
Quick search				variety		name			VIT	\		plant
Advanced search Photo search		green	Sangiovese forte	yes			ITA412	ITA412-SF131	VINIFE	X	F	Bunch
Characterisation data SSR-marker data Virus data	ABELLO	green		no reference			ITA388	ITA388-G001	VITIS VINIFERA LINNÉ			Bunch
Catalogue of varieties On farm maintenance	Acini piccoli	black	Trevisana nera	yes		misnomer	ITA360	ITA360-516	VITIS VINIFERA LINNÉ	ITALY	×	Bunch
Descriptors/file formats Institute codes	Admirable de Courtiller	green	Admirable de Courtiller	yes	68	true name	FRA139	FRA139-814Mtp1	VITIS VINIFERA VINIFERA	FRANCE	1	Bunch
Contact Disclaimer	ADREULI SKELKANA	green	ADREULI SKELKANA		21849		GEO015	GE0015-21-E	VITIS VINIFERA LINNÉ SUBSP. VINIFERA	GEORGIA		Bunch
Varieties registered in Europe	Afalos Chanoumissas	green		yes	40087		GRC010	P07#S/A-16	VITIS VINIFERA SUBSP. VINIFERA	GREECE	۲	Bunch
Home page	AFFENTHALER	black	AFFENTHALER	yes	79		DEU098	DEU098-1992-074	VITIS VINIFERA LINNÉ SUBSP. VINIFERA	GERMANY	¥.	Bunch
	AGHBIJ	black	AGHBIZH		97		GEO014	GE0014-3-19B	VITIS VINIFERA LINNÉ SUBSP. VINIFERA	GEORGIA		Bunch
	AGHBIJ	black	AGHBIZH		97		GEO014	GE0014-3-19B	VITIS VINIFERA LINNÉ SUBSP. VINIFERA	GEORGIA		Bunch
	AGHEDENE	green					ITA388p	ITA388p-ersaAGH	VITIS VINIFERA LINNÉ SUBSP. VINIFERA	4	1	Bunch
	AGIANNIOTIKO	black		yes	99		GRC005	P06#16-H	VITIS VINIFERA LINNÉ SUBSP. VINIFERA	GREECE		Bunch
	AGIORGITIKO	black		yes	102		GRC005	P06#6-1	VITIS VINIFERA VINIFERA	GREECE		Bunch

Figure 11: Bunch of the accession "Admirable de Courtiller"



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

European Programme Genetic Resource ECP/GR	Public access Characterisation data Note: either chose option A or B. A click on the check box generates a list of all the described accessions to be found in the database, see figure 12. A : Listing of all accessions described.
Users handbook 🗾 📩	
SQL table scheme	B : Specific search
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	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. Accession name Variety name Variety number VIVC Accession number Year of description Origin of the data
Varieties registered in Europe	
Homo page	
nome page	Search
	Search Reset

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.

Cooperative	Public access Characterisation data														
Genetic Resources	Search criterior Search result :	n : all acce: 2748 (ssions 1 100)												
	Back to search	<u>torm Pr</u>	evious page												
	First Next	: Last													
SQL table scheme		Color of	8.	Trueness	Variety	Remarks		Accession number							
SQL table scheme M	Accession	berry	Variety name	to type of the	number	to the accession	Holding	(access to ampelographic	Species	Subtaxa	Country of origin of the variety	Year of description			
Ouick search		skin		variety	NIAC	name		data)							
 Advanced search Photo search 	1527-1-EM	green	1527-1-EM	not checked			CZE041	CZE041-24V0130047	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	FRANCE	2007-2009			
 Characterisation data SSR-marker data View data 	1540-51-EM	green	1540 - 51 - EM	not checked			CZE041	CZE041-24V0130050	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	FRANCE	2007-2009			
Catalogue of varieties On farm maintenance	1624-42	green	1624 - 42	not checked			CZE041	CZE041-24V0130051	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	FRANCE	2007-2009			
Descriptors/file formats Institute codes	32-B-8	green	32 - B - 8	not checked			CZE041	CZE041-24V0130052	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		2007-2009			
Important links Contact	34 - EM FDEY(BER.x RIP.)						GRC010	P07#B-7				1999			
Disclaimer	420 A						GRC010	P07#B-4				1999			
Varieties registered in Europe	ABELLO	green		no reference			ITA388	ITA388-G001	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	GREECE	2007			
nome page	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	Trevisana nera	yes		misnomer	ITA360	ITA360-516	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	ITALY	2009			
Bundesminister om für Ernähnung, Land wirtschaft und Vartersucherse hatz	Admirable de	areen	Admirable de	Ver	4.9	true nome	FD A130	FD 0130-81/M+61	VITIS	SUBSP.	FDANCE	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.



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.

European Cooperative	Public access Search by	cultivars
for Plant Genetic Resources ECP/GR	Note: use the list fields to select t Use % as wildcard at the beginnir beginnings.	he search criteria. Ig of a keyword for searching for the word with multiple
Users handbook 📩 SQL table scheme 🗃	Download (or view): • Guidelines for the compilation • What is 'trueness to type'. • SSR-marker data of 'reference	of MCPD descriptors related to 'trueness to type'. varieties'.
SSR-marker data		
Search by cultivars Search by allele lengths	Accession name	Heunisch weiss
	Color of berry skin	•
Login successful Description DEUM001 Logout	Variety name Accession number	
	Holding institution Genus, species	v
	Subtaxa	
	Subtaxa authority	
	Country of origin of the variety	v
	Trueness to type	•
	Variety number VIVC	
	Search Reset	

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.

Cooperative Program	Public access Search by cultivars												
for Plant Genetic Resources ECP/GR	Search criterion : 1. Accession name : Heunisch weiss Search result : 3 (1 3)												
	Back to sea	arch fo	rm <u>Previ</u>	ous page									
Users handbook 🗾 📩	First L	ast											
SQL table scheme 📝 Public access	Accession	Color of	Variety	Trueness to type	Variety	Remarks to the	Holding	Accession	Species	Subtava	Country of		
• Search by cultivars	name	berry skin	name	of the variety	VIVC	accession name	institution	to data)	opecies	Subtaxu	of the variety		
 Search by allele lengths 	HEUNISCH WEISS	green	HEUNISCH WEISS	yes	5374		DEU098	DEU098-1993-303	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	AUSTRIA		
Login successful	HEUNISCH WEISS	green	HEUNISCH WEISS	yes	5374	true name	ESP080	ESP080- BGVCAM2767	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.

for Plant Genetic Resources	<u>Back to s</u>	earch form	Previous page									
	Con	imon passpo	rt descriptors									
	Accessi	on name		HEU	NISCH WEISS							
Users handbook	Accessi	Accession number			ESP080-BGVCAM2767							
QL table scheme	Variety	Variety name			NISCH WEISS							
blic access	Color o	Color of berry skin			n							
R-marker data	Genus,	Genus, species			S VINIFERA LINNÉ							
Search by cultivars	Country	Country of origin of the variety			TRIA							
Search by allele lengths	Use (cr	Use (crop name)			E GRAPE							
	Holding	institution		ESP	080							
DEUM001 Logout	SSR	-marker			SSR-marker data							
Login successful	SSR OIV Code	-marker	Allele size (N) observed by GrapeGen06 partners	Coded allele1	SSR-marker data Variety code (example var	iety)	Coded allele2	Variety code (example va	riet			
Login successful	SSR OIV Code OIV 80	-marker Descriptor 1 VVS2	Allele size (N) observed by GrapeGen06 partners 121 - 124 bp	Coded allele1 N+10	SSR-marker data Variety code (example var BA1 (Barbera N 1)	riety) ?	Coded allele2 N+20	Variety code (example va CH2 (Chardonnay B 2)	riety (
ogin successful	SSF OIV Code OIV 80 OIV 80	-marker Descriptor 1 VVS2 2 VVMD5	Allele size (N) observed by GrapeGen06 partners 121 - 124 bp 218 - 224 bp	Coded allele1 N+10 N+12	SSR-marker data Variety code (example var BA1 (Barbera N 1) CH1 (Chardonnay B 1)	riety) ?	Coded allele2 N+20 N+18	Variety code (example va CH2 (Chardonnay B 2) CF2 (Cabernet franc N 2)	riet (
ogin successful 🥵	556 01V Code 01V 80 01V 80 01V 80	-marker Descriptor 1 VVS2 2 VVMD5 3 VVMD7	Allele size (N) observed by GrapeGen06 partners 121 - 124 bp 218 - 224 bp 229 - 235 bp	Coded allele1 N+10 N+12 N+8	SSR-marker data Variety code (example var BA1 (Barbera N 1) CH1 (Chardonnay B 1) CF1 (Cabernet franc N 1)	riety) (?) (?) (?)	Coded allele2 N+20 N+18 N+18	Variety code (example va CH2 (Chardonnay B 2) CF2 (Cabernet franc N 2) MU2 (Muscat à petits grains blancs B 2)	riet ((
Login successful 25	554 01V Code 01V 80 01V 80 01V 80 01V 80	-marker Descriptor 1 VVS2 2 VVMD5 3 VVMD7 4 VVMD27	Allele size (N) observed by GrapeGen06 partners 121 - 124 bp 218 - 224 bp 229 - 235 bp 171 - 175 bp	Coded allele1 N+10 N+12 N+8 N+4	SSR-marker data Variety code (example var BA1 (Barbera N 1) CH1 (Chardonnay B 1) CF1 (Cabernet franc N 1) MU1 (Muscat à petits grains blancs B 1)	riety) ? ? ? ?	Coded allele2 N+20 N+18 N+18 N+6	Variety code (example va CH2 (Chardonnay B 2) CF2 (Cabernet franc N 2) MU2 (Muscat à petits grains blancs B 2) CF1 (Cabernet franc N 1)	riet ((((()			
Login successful 25	556 01V Code 01V 80 01V 80 01V 80 01V 80 01V 80 01V 80	 -marker Descriptor VVS2 VVMD5 VVMD7 VVMD27 VrZAG62 	Allele size (N) observed by GrapeGen06 partners 121 - 124 bp 218 - 224 bp 229 - 235 bp 171 - 175 bp 172 - 178 bp	Coded allele1 N+10 N+12 N+8 N+4 N+22	SSR-marker data Variety code (example var BA1 (Barbera N 1) CH1 (Chardonnay B 1) CF1 (Cabernet franc N 1) MU1 (Muscat à petits grains blance B 1) CH2 (Chardonnay B 2)	riety) ? ? ? ? ?	Coded allele2 N+20 N+18 N+18 N+6 N+30	Variety code (example va CH2 (Chardonnay B 2) CF2 (Cabernet franc N 2) MU2 (Muscat à petits grains blancs B 2) CF1 (Cabernet franc N 1) CF2 (Cabernet franc N 2)	riet; ((((()			
Login successful 25	558 01V Code 01V 80 01V 80 01V 80 01V 80 01V 80 01V 80 01V 80 01V 80	-marker Descriptor 1 VVS2 2 VVMD5 3 VVMD7 4 VVMD27 5 VrZAG62 6 VrZAG79	Allele size (N) observed by GrapeGen06 partners 121 - 124 bp 218 - 224 bp 229 - 235 bp 171 - 175 bp 172 - 178 bp 234 - 238 bp	Coded allele1 N+10 N+12 N+8 N+4 N+22 N	Variety code (example var BA1 (Barbera N 1) CH1 (Chardonnay B 1) CF1 (Cabernet franc N 1) MU1 (Muscat à petits grains blancs B 1) CH2 (Chardonnay B 2) RO1 (Romorantin B 1)	riety) ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	Coded allele2 N+20 N+18 N+18 N+6 N+30 N+6	Variety code (example va CH2 (Chardonnay B 2) CF2 (Cabernet franc N 2) MU2 (Muscat à petits grains blancs B 2) CF1 (Cabernet franc N 1) CF2 (Cabernet franc N 2) CH1 (Chardonnay B 1)	riet; ((((((()			
Login successful	556 01V Code 01V 80 01V 80 01V 80 01V 80 01V 80 01V 80 01V 80 01V 80	-marker Descripton 1 VVS2 2 VVMD5 3 VVMD7 4 VVMD27 5 VrZAG62 6 VrZAG79 7 VVMD25	Allele size (N) observed by GrapeGen06 partners 121 - 124 bp 218 - 224 bp 229 - 235 bp 171 - 175 bp 172 - 178 bp 234 - 238 bp	Coded allele1 N+10 N+12 N+8 N+4 N+22 N N+4	Variety code (example var BA1 (Barbera N 1) CH1 (Chardonnay B 1) CF1 (Cabernet franc N 1) MU1 (Muscat à petits grains blancs B 1) CH2 (Chardonnay B 2) RO1 (Romorantin B 1)	riety) ? ? ? ? ? ?	Coded allele2 N+20 N+18 N+18 N+6 N+30 N+6 N+20	Variety code (example va CH2 (Chardonnay B 2) CF2 (Cabernet franc N 2) MU2 (Muscat à petits grains blancs B 2) CF1 (Cabernet franc N 1) CF2 (Cabernet franc N 2) CH1 (Chardonnay B 1)	riet; ((((((()			
Login successful 25	SSH OIV Code OIV 80 OIV 80 OIV 80 OIV 80 OIV 80 OIV 80 OIV 80 OIV 80 OIV 80	-marker Descriptor VVS2 VVMD5 VVMD7 VVMD27 VrZAG62 VrZAG79 VVMD28	Allele size (N) observed by GrapeGen06 partners 121 - 124 bp 218 - 224 bp 229 - 235 bp 171 - 175 bp 172 - 178 bp 234 - 238 bp 233 - 239 bp 235 - 219 bp	Coded allele1 N+10 N+12 N+8 N+4 N+22 N N+4 N+12	SSR-marker data Variety code (example var BA1 (Barbera N 1) CH1 (Chardonnay B 1) CF1 (Cabernet franc N 1) MU1 (Muscat à petits grains blancs B 1) CH2 (Chardonnay B 2) RO1 (Romorantin B 1)	riety) ? ? ? ? ? ?	Coded allele2 N+20 N+18 N+18 N+6 N+30 N+6 N+20 N+30	Variety code (example va CH2 (Chardonnay B 2) CF2 (Cabernet franc N 2) MU2 (Muscat à petits grains blancs B 2) CF1 (Cabernet franc N 1) CF2 (Cabernet franc N 2) CH1 (Chardonnay B 1)	riet ((((((((

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

European Fogramme for Plant Genetic Resources	Public acc	rch form	R-marker d	lata				
ECP/GR	Comn	ion passpor	t descriptors					
	Accession	name		HEUNISCH WEISS				
Users handbook 🛛 📩	Accession	number		ESP080-BGVCAM2767				
SQL table scheme	Variety na	me		HEUNISCH WEISS				
Public access	Color of b	erry skin						
SSR-marker data	Genus, sp	ecies		Descriptor notations:				
Search by cultivars	Country o	f origin of the	e variety	n=33C1 (Couderc 3309 1)				
Search by allele lengths Use (crop name)				n+2=VIA1 (Vialian 1) n+4=4MG1 (Millardat at Grasset 420 A 1)				
	Holding in	stitution		n+6=RO1 (Romorantin B 1)				
				n+8=VE 1 (Veitliner rot RG 1)				
Login successful				n+10=BA1 (Barbera N 1)				
DEUM001 Logout				n+14=CH1 (Chardonnay B 1)	la			
				n+16=CF1 (Cabernet franc N 1)				
	SSR-I	narker		n+18=GO2 (Goethe 9 2)				
	OIV Code	Descriptor	Allele size (observed by GrapeGen06 partners	n+22=SUI (Sultanina B 1) n+24=CF2 (Cabernet franc N 2) n+26=99R2 (Richter 99 2)	variety)	Coded allele2	Variety code (example va	riety)
	OIV 801	VVS2	121 - 124 bp	n+28=SI1 (Silvaner B 1) n+30=SI2 (Silvaner B 2)	(?)	N+20	CH2 (Chardonnay B 2)	
	OIV 802	VVMD5	218 - 224 bp	n+32=MAR2 (Madeleine Royale B 2)	(?)	N+18	CF2 (Cabernet franc N 2)	
	OIV 803	VVMD7	229 - 235 bp	n+36= n+38=33C2 (Couderc 3309 2)	?	N+18	MU2 (Muscat à petits grains b B 2)	ancs (?)
	OIV 804	VVMD27	171 - 175 bp		ns blancs ?	N+6	CF1 (Cabernet franc N 1)	
	OIV 805	VrZAG62	172 - 178 bp	OK	?	N+30	CF2 (Cabernet franc N 2)	
	OIV 806	VrZAG79	234 - 238 bp		?	N+6	CH1 (Chardonnay B 1)	
	OIV 807	VVMD25	233 - 239 bp	N+4		N+20		
	OIV 808	VVMD28	215 - 219 bp	N+12		N+30		
	OIV 809	VVMD32	234 - 236 bp	0		0		

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

European Cooperative	Public access Search by allele lengths								
Genetic Resources	Note: Edit the coded allele lengths.								
ECP/GR	Download (or view): • Guidelines for the compilation of MCPD descriptors related to 'trueness to type'. • What is 'trueness to type'.								
Users handbook 🛃	Son-marker data of reference varieties :								
SQL table scheme 🛛	CCD marker								
Public access	SSR-marker								
SSR-marker data	Search by allele lengths								
Search by cultivars	Search by ancie lengths	codod	codod						
 Search by allele lengths 	OIV Code Descriptor	allele1	allele2						
	0IV 801 SSR-marker VVS2	n+20	n+22						
Login successful	0IV 802 SSR-marker VVMD5								
DEUM001 Logout	0IV 803 SSR-marker VVMD7								
	0IV 804 SSR-marker VVMD27								
	0IV 805 SSR-marker VrZAG62								
	0IV 806 SSR-marker VrZAG79								
	0IV 807 SSR-marker VVMD25								
	0IV 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.

Cooperative	Public acces	Public access Search by allele lengths Search criteria : 1. OTV 801 VVS2 coded allele1 : n+20 2. OTV 801 VVS2 coded allele2 : n+22 Search result : 166 (1 - 100) Back to search form Previous page													
For Plant Genetic ECP//GR	Search criteria 1. OIV 801 2. OIV 801 Search result : Back to search														
Users handbook 🗾 📩															
SQL table scheme 🛛 🐱	First Nex	t La	st												
Public access SSR-marker data • Search by cultivars • Search by allele lengths	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							
Login successful	Agiorgitico noir	black	Aghiorgitiko	yes	102		FRA139	FRA139-1816Mtp2	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	GREECE				
	AGIORGITIKO	black	AGIORGITIKO	yes	102	true name	ESP080	ESP080- BGVCAM2624	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- BGVCAM2031	VITIS VINIFERA LINNÉ		SPAIN				
	Airen	green		not checked			ITA362	ITA362-57							
	ALARIJE	green	ALARIJE	yes	213	true name	ESP080	ESP080- BGVCAM2328	VITIS VINIFERA LINNÉ		SPAIN				
	ALBILLO	green	ALBILLO	yes	12581	true name	ESP080	ESP080-	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-INSTCO	2-ACCENUM	11-ACCENAN	A-Variety na	B-BERRY O	VVMD5	VVMD5	VVMD7	VVMD7	VVMD25	VVMD25	VVMD27	VVMD27	VVMD
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	FRA139-555N	Muscat à pet	Moscato di C	GREEN	N+6	N+14	N+2	N+18	N+6	N+14	N+4	N+19	N+30
7	WP1	FRA139	FRA139-308N	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	FRA139-443N	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	FRA139-326N	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	FRA139-258N	Gewurztram	Gewürztram	ROSE	N+4	N+12	N+8	N+8	N+4	N+20	N+6	N+19	N+12
11	WP1	FRA139	FRA139-284N	Velteliner ro	Velteliner ro	ROSE	N+18	N+24	N+8	N+22	N+4	N+6	N+8	N+19	N+30
12	WP1	FRA139	FRA139-193N	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	FRA139-270N	Sylvaner	Sylvain Froe	GREEN	N+4	N+10	N+12	N+16	N+6	N+14	N+14	N+19	N+12
14	WP1	FRA139	FRA139-199N	Chardonnay	Chardonnay	GREEN	N+12	N+16	N+8	N+12	N+4	N+20	N+6	N+14	N+2
15	WP1	FRA139	FRA139-322N	Cabernet-Sa	Cabernet Sa	BLACK	N+6	N+12	N+8	N+8	N+6	N+20	N+4	N+10	N+18
16	WP1	FRA139	FRA139-324N	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	FRA139-304N	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	FRA139-450N	Portugais ble	Portugais ble	BLACK	N+4	N+10	N+12	N+24	N+14	N+14	N+6	N+19	N+12
20	WP1	FRA139	FRA139-653N	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	FRA139-814N	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.

European Cooperative	Public access Virus data
for Plant Genetic Resources	Note: either chose option A or B.
ECP/GR	A : Listing of all accessions
	Virus data of all accessions described.
Users handbook 🗾 📩	
SQL table scheme 🛛 🐻	B : Specific search
Public access	
Quick search	Note: use the list fields to select the search chieffas.
 Advanced search 	beginnings.
Photo search	
 Characterisation data 	Remark: The Elisa test has been carried out according to Clark M.F., Bar Joseph, M. 1984:
 SSR-marker data 	Enzyme initiatiosofbent assays in plant virology, Methods in Virology, 7.51-65
Virus data	
 Catalogue of varieties 	Accession name
 On farm maintenance 	
Descriptors/file formats	Variety name
Institute codes	Variety number VIVC
Important links	
Contact	Accession number
Disclaimer	Origin of the data
Varieties registered in Europe	
Home page	

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

Corporation Forganian Genetic Resource ECP/GR	Public access Search criterior Search result : Back to search	s Viru n : all acces 466 (1 <u>form</u> Pro	ssions 100) evious page							
Users handbook 🛛 📩	FIFSt Next	Last								
SQL table scheme	Accession	Color of berry	Variety	Holding	Accession number (access to	Species	Subtaxa	Subtaxa	Country of origin of	of
Public access	name	skin	name	institution	data)			authority	variety	testing
 Quick search Advanced search Photo search 	1527-1-EM	green	1527-1-EM	CZE041	CZE041-24V0130047	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		FRANCE	2009
 Characterisation data SSR-marker data Virus data 	1540-51-EM	green	1540 - 51 - EM	CZE041	CZE041-24V0130050	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		FRANCE	2009
Catalogue of varietiesOn farm maintenance	1624-42	green	1624 - 42	CZE041	CZE041-24V0130051	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		FRANCE	2009
Descriptors/file formats Institute codes Important links	32-B-8	green	32 - B - 8	CZE041	CZE041-24V0130052	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA			2009
Contact Disclaimer	Acini piccoli	black	Trevisana nera	ITA360	ITA360-516	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		ITALY	2009
Varieties registered in Europe	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
Davdesministerium für Ensilvrung, Landwirtschuft	ALBILLO REAL	green	ALBILLO REAL DE	ESP080	ESP080-BGVCAM0930	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.

Users handbook Image: Second in the variety is the	EccPu GR	Public access Catalogue Note : variety description sheets clusters of the varieties described as ampelographic and agronomic Use % as wildcard at the beginnin beginnings.	of autochthonous varieties encompass photos of the shoot tip, lea in the scope of Gerres081 and Grape@ characteristics. Use the list fields to sel ig of a keyword for searching for the wi	aves and SenO6, as well lect the search criteria. ord with multiple	
sQL table scheme Accession name Public access Color of berry skin Quick search Variety name Advaned search Variety name Characterisation data Country of origin of the variety SPR-marker data Use (crop name) Virus data Use (crop name) Catalogue of varieties Holding institutions Parkitak Workpackage Descriptors/file formats Variety access Institute codes Search Contact Search Disclaimer Eu/keir - Copyright JKI © 2007	Users handbook 🛛 📩				
Public access Color of berry skin Important links Quick search Variety name Important links Characteristies Holding institutions SPAIN Virus data Use (crop name) Important links Descriptors/file formats Morkpackage Important links Contact Descriptors/file formats Reset	SQL table scheme 🛛 🐱	Accession name			
• Quick search Cools of Drift Skill • Quick search Variety name • Photos search Variety name • Characterisation data Country of origin of the variety • SR-marker data Use (crop name) • Virus data Catalogue of varieties • On farm maintenance Workpackage • On farm maintenance Workpackage • On farm maintenance Workpackage	Public access	Color of berry skip			
Advanced search Variety name Country of origin of the variety SPAIN SPAIN	Quick search	color of berry skin			
Country of origin of the variety SPAIN • Characterisation data Use (crop name) • SSR-marker data Use (crop name) • Catalogue of varieties Holding institutions • On farm maintenance Workpackage • Descriptors/file formats Workpackage mistitute codes Search mistitute codes Reset	Advanced search Bhoto coprob	Variety name			
SSR-marker data Use (crop name) Virus data Catalogue of varieties Holding institutions Workpackage Workpackage Workpackage Virus Contact Search Reset Varieties registered in Europe Uuvers - Copyright JKL © 2007	Characterisation data	Country of origin of the variety	SPAIN	•	
	• SSR-marker data				
	• Virus data	Use (crop name)			
Workpackage Workpackage Workpackage Workpackage Variation Second	 Catalogue of varieties 	Holding institutions			
Descriptors/file formats Institute codes Important links Ontact Search Reset Disclaimer Inities registered in Europe EU.Veis - Copyright JKI © 2007	 On farm maintenance 	Workpackage			
Institute codes Important links Contact Search Reset Disclaimer Artieties registered in Europe EU.Vkr/s - Copyright XI © 2007	Descriptors/file formats	······			
Important links Contact Search Reset Disclaimer Artieties registered in Europe EU.Vzt/s - Copyright Xt © 2007	Institute codes				
Contact Search Reset Disclaimer	important links				
Jisclaimer Ariteties registered in Europe EU.Vitis - Copyright JKI © 2007	Contact	Search Reset			
Arrieties registered in Europe EU.Vite's - Copyright JKI (© 2007	Disclaimer	20			
	/arieties registered in Europe	EU. <i>Vitis</i> - Copyright JKI 🔘 2007			
Home page	Home page				

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.

jKi

Bundapreiniste Ensilbrung, Las

Cooperation for Plant Reservices ECCP/ GR	Public acces Search criteric Search result <u>Back to search</u>	55 Ca in : SPAIM : 487 (<u>n form</u> :t Last	atalogue of auto 1 100) Previous page	ochthonou	A to	the ne	on the ext stej ument,	access p befor see fig	ion nun e gener gure 14.	nber leads ating the
Users handbook 🔀 SQL table scheme 🗃	Accession name	Color of berry	¥ariety name	Holding institution	Accession number (access to variety	Species	Subtaxa	Subtaxa authority	Country of origin of the upriotu	Year of description
Public access Quick search Advanced search	AGUDELO	SKIII	AGUDELO	ESP080	ESP080-BGVCAM1564	VITIS VINIFERA LINNÉ			SPAIN	2008
 Photo search Characterisation data SSR-marker data 	AIREN		AIREN	DEU098	DEU098-1994-060	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		SPAIN	1999
Virus data Catalogue of varieties On farm maintenance	Airén			ESP074	P04#9184	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		SPAIN	1999
Descriptors/file formats Institute codes	Airén			ESP074	P04#9184	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		SPAIN	2000
Important links Contact	AIRÉN		AIRÉN	ESP080	ESP080-BGVCAM2031	VITIS VINIFERA LINNÉ			SPAIN	1999
Disclaimer Varieties registered in Europe	AIRÉN		AIRÉN	ESP080	ESP080-BGVCAM2031	VITIS VINIFERA LINNÉ			SPAIN	2008
Home page	ALARIJE		ALARIJE	ESP080	ESP080-BGVCAM2328	VITIS VINIFERA LINNÉ			SPAIN	2008
C	Alarije dorado			ESP074	P04#9002	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		SPAIN	2000
	Alarije dorado			ESP074	P04#9002	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		SPAIN	1999
Bundesministerian für Emälvang, Laevantachaft und Verkoschnarkskat	ALBARÍN BLANCO		ALBARÍN BLANCO (SAVAGNIN BLANC)	ESP080	ESP080-BGVCAM1571	VITIS VINIFERA I INNÉ			SPAIN	2008

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

Public access | Catalogue of autochthonous varieties

Cooperative for Plant Senetic Resource ECP/CR	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.
Users handbook 🕺	Common passport descriptors	
SQL table scheme	Accession name	FORCALLAT
Public access	Accession number	ESP080-BGVCAM0973
Quick search	Variety name	FORCALLAT BLANCA
Auvanced search	Color of berry skin	green
Characterisation data	Genus, species	VITIS VINIFERA LINNÉ
SSR-marker data	Subtaxa	
Virus data	Subtaxa autority	
Catalogue of varieties	Country of origin of the variety	SPAIN
On farm maintenance	Use (crop name)	WINE GRAPE
escriptors/file formats	Holding institution	ESP080
nstitute codes	Year of description	1999
mportant links		
Contact		
visclaimer	Category of photos	
/arieties registered in Europe	Note: for the establishment of the estale	ave shares and convenient photo of each estagoria, cheat tin last and hunch
Home page	Note. for the establishment of the catalo	gue choose one convenient photo of each categorie "shoot up, rear and bunch.
	C	
	Mature leaf	
	Bunch	
	°	
Genetic Resources Adapt State for Adapt State	Berry	
Bundesministerium für and Varisscharath and Varisscharathtat		

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

Multi Cro Color of b Variety na				Annual Accounts
Color of b Variety na	n Passnort Descriptor Data	1		
Variety na	op Pasaport Descriptor Data	oreen		
	ame	FORCALLAT		
Genus, Sj	pecles	VITIS VINIFERA LIN	NÉ	
Country o	f origin of the variety	SPAIN		
Holding In	name)	Instituto Madrileño de	e investigación Agraria y Aliment	aria (LM.LA)
		Finca "El Encin", Alc E - 28800 Madrid	alà de Henares - I.M.I.D.R.A	and A second at a
Priority d	lescriptor data			
OIV 004	Young shoot: density of pro	strate hairs on the	high	A CONTRACTOR OF
	shoot tip			
OIV 051	Young leaf: color of upper s	ide of blade (4th	bronze	
	leaf)			
OIV 068	Mature leaf: number of lobe	6	seven	
OIV 070	Mature leaf: area of anthory	anin coloration of	absent	
510 610	main veins on the unner sid	e of blade	and Marine	and the second second
OIV 076	Mature leaf: shape of teeth		both sides straight	STATE I
OIV 079	Mature leaf: degree of onen	ing / overlapping	open	
2.2 612	of petiole sinus			
01/184	Mature leaf: density of prost	trate hairs	low.	
010 004	hetween main veins on jow	ar side of blade	1044	
01/ 087	Mature leaf: density of erect	thairs on main	low.	
010 007	value real, density of erect			
OIV 223	Remy: shape		hmad allinsold	
010 220	Berry: enlage		oroen vellev	
OIV 225	Berry: color of skin		green yellow	
Bunch / b	berry descriptor data			The second se
OIV 202	Bunch: length (peduncle ex	cluded)		
OIV 204	Bunch: density		loose / medlum	
OIV 206	Bunch: length of peduncie of	of primary bunch	short (about 50 mm)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
OIV 209	Bunch: number of winos of	the primary bunch	1-2 winds, 3-4 winds	and a lot
OIV 220	Berry: length			1
OIV 221	Berry: width			
OIV 502	Bunch: single bunch weight			
OIV 503	Berry: single berry weight		low (about 3 g)	
			21	
Agronom	nic features			
OIV 301	Time of bud burst		very early	
OIV 303	Time of beginning of berry r	ipening (veraison)		and the second sec
OIV 351	Vigor of shoot growth			and the second state
OIV 504	Yield per m2			
OIV 505	Sugar content of must		high (about 21 %)	
enD6		© JKI - Institut für	Rebenzüchtung Geliwellerhof	07.01.201

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.

European Cooperative	Public access On farm evaluatio	n
Genetic Resources	Note: either chose option A or B.	
ECP/GR	Listing of the complete table of v	arieties studied.
Users handbook 🛛 📩		
SQL table scheme 🛛 🐻	B : Specific search	
Public access	Makes was the Eat Calde to cale take a	and alteria
 Quick search Advanced search Photo search 	Use % as wildcard at the beginning of beginnings.	arch chiena. a keyword for searching for the word with multiple
 Characterisation data 		
 SSR-marker data 	Variety name	•
Virus data	Origin of the data	_
 Catalogue of varieties 	origin of the data	
On farm maintenance	Country of origin of the variety	•
Descriptors/file formats		
Institute codes		
Important links		
Contact	Course Doort	
Disclaimer	Search Reset	
Varieties registered in Europe		
Home page	EU.vitis - Copyright JKI (C) 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 1st column.

Cooperative	Public access	On farm	evaluation		
Genetic Resource ECP/GR	Search criterion : a Search result : 56 Back to search for	all varieties (156 <u>m</u> <u>Previous</u>) I page		
Users handbook 🛛 📩					
SQL table scheme 📝 Public access	Variety name (access to data)	Color of berry skin	Holding institution	Country of origin of the variety	Download On farm data
Quick search					(PDF-File)
Advanced search	Aghedene	green yellow	CRA – Centro di ricerca per la viticoltura, #6, (in collaboration with CRA – Unità di ricerca per la Viticoltura (ITA372))	Italy	view
Photo search Characterization data	Albillo	green yellow	I.M.I.D.R.A. Partner 3	Spain	view
Characterisation data SSR-marker data	Arcè	blue dark	University of Verone	Italy	view
Virus data	Babica	blue dark	Faculty of Agriculture, University of Zagreb	Croatia	view
Catalogue of varieties	Barsaglina	blue dark	CRA - Centro di ricerca per la viticoltura, #6, (in collaboration with CRA - Unità di ricerca per la Viticoltura (ITA372))	Italy	view
On farm maintenance Descriptors/file formats	Berzamino	blue dark	CRA - Centro di ricerca per la viticoltura, #6, (in collaboration with CRA - Unità di ricerca per la Viticoltura (ITA372))	Italy	view
Institute codes	Brajdica bijela		Faculty of Agriculture, University of Zagreb	Croatia	view
Important links	Brambana	blue dark	CRA – Centro di ricerca per la viticoltura, #6, (in collaboration with CRA – Unità di ricerca per la Viticoltura (ITA372))	Italy	view
Disclaimer	Capolongo	green yellow	CRA - Centro di ricerca per la viticoltura, #6, (in collaboration with ARSIAL)	Italy	view
Varieties registered in Europe	Casetta	blue dark	Istituto Agrario di S. Michele a/A	Italy	view
Home page	Cjavalgjàn	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
	Elbling blau	blue dark	Julius Kühn Institut, Institut für Rebenzüchtung Geilweilerhof, partner number 1	Germany	view

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

ion of the cultivar
Montanera (di Perosa)
Negrera (biellese), Corvino, Paganona
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.
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.
extimated 2 ha (2008)
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.

ck to search form Previous page	
Section 1 - General description of the	e 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 (befor 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 th 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	extimated 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 descript	tion
Clone	population
Institution describing the variety	
Country	Italy
Owner of the vineyard	ITA Umberto I, Corso Enotria 1, Alba, CNR, Italy
Geograpical 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 m2
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)	S04
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	1TA360-220
Accession number	ITA360p-on-tarm 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	19 April	26 April
Date of mac should be control variety	E Avenat	20 April
Date of versions of eached versions	10 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	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	12.6	6.7
Average weight of a berry (g)	2 g	2,5 g
Notes		
Grape skin phenolic compounds		
Total anthocyanins [mg/kg]		
average	2464	2148
standard deviation	220	456
Proanthocyanidins or tannins (PC) [mg/kg]		
• average	2229	1974
standard deviation	143	285
Elavanols (tannins) reactive to vanilling (ED)()		
[mg/kg]		
• average	437	522
standard deviation	89	178
FRV/PC	0.2	0.26
Total flavonoids * [mo/ko]		
• sverage	2741	5107
 average atopdard douistics 	5741	1116
 standard deviation 	250	1110
Grape seed phenolic compounds		
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
Crease ship antheorypain profile (0/.)		
Grape skin antiocyanin prome (%)		
Delphiniain 3-glucosiae	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		
Section 5 Enological reactines		
Harvesting year	2008	2009
Must compounds		
Sugar degree (°Brix)	25.3	24
Titrable acidity (g/L tartaric acid)	8.3	7.5
pH	3.18	3.25
Wine chemical composition		
Alcohol % vol	14.04	14.02
Sugar %	0.19	0.13
Total day matter a/l	27.2	29.1
olar ury maller g/L	27.5	20.1
Total acidity o/L H2CO4	6.16	6.15
	0.10	1702
		1/93
Colour Intensity	1.5	1.41
Colour hue****	0.65	0.7
Tartaric acid g/L	1./6	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	2145	
Ash g/L	1.140	
	3.15	3.56
Wine phenolic compounds	3.15	3.56
Wine phenolic compounds Total anthocyanins (mg/L)	3.15	3.56
Wine phenolic compounds Total anthocyanins (mg/L) Total Polyphenols Content Index or A 280	3.15 549 1573	3.56 404 1458
Wine phenolic compounds Total anthocyanins (mg/L) Total Polyphenols Content Index or A 280 Total flavonoids (mg/L)	3.15 549 1573 1573	3.56 404 1458 1458
Wine phenolic compounds Total anthocyanins (mg/L) Total Polyphenols Content Index or A 280 Total flavonoids (mg/L) Proanthocyanidins or tannins(PR) (mg/L)	3.15 549 1573 1573 2209	3.56 404 1458 1458 2249
Wine phenolic compounds Total anthocyanins (mg/L) Total Polybenols Content Index or A 280 Total flavonoids (mg/L) Proanthocyanidins or tannins(PR) (mg/L)	3.15 549 1573 1573 2209	3.56 404 1458 1458 2249
Wine phenolic compounds Total anthocyanins (mg/L) Total Polyphenols Content Index or A 280 Total flavonoids (mg/L) Proanthocyanidins or tannins(PR) (mg/L) Section 6 - Wine evaluation	3.15 549 1573 1573 2209	3.56 404 1458 2249
Wine phenolic compounds Total anthocyanins (mg/L) Total Polyphenols Content Index or A 280 Total flavonoids (mg/L) Proanthocyanidins or tannins(PR) (mg/L) Section 6 - Wine evaluation Vintage	2008	3.56 404 1458 1458 2249 2009
Wine phenolic compounds Total anthocyanins (mg/L) Total Polybenols Content Index or A 280 Total flavonoids (mg/L) Proanthocyanidins or tannins(PR) (mg/L) Section 6 - Wine evaluation Vintage Year of depustation	3.15 549 1573 1573 2209 2008 2009	3.56 404 1458 1458 2249 2009 2010
Wine phenolic compounds Total anthocyanins (mg/L) Total Polyphenols Content Index or A 280 Total flavonoids (mg/L) Proanthocyanidins or tannins(PR) (mg/L) Section 6 - Wine evaluation Vintage Year of degustation Number of paneliste	2.15 3.15 549 1573 1573 2209 2008 2009 9	3.56 404 1458 2249 2009 2010 9
Wine phenolic compounds Total anthocyanins (mg/L) Total Polybenols Content Index or A 280 Total flavonoids (mg/L) Proanthocyanidins or tannins(PR) (mg/L) Section 6 - Wine evaluation Vintage Year of degustation Number of panelists	3.15 549 1573 1573 2209 2008 2009 9 9 research institute name! fuice	3.56 404 1458 1458 2249 2009 2010 9 research institute panel (winc
Wine phenolic compounds Total anthocyanins (mg/L) Total Polybenols Content Index or A 280 Total Flavonoids (mg/L) Proanthocyanidins or tannins(PR) (mg/L) Section 6 - Wine evaluation Vintage Year of degustation Number of panelists Tasting session	3.15 549 1573 1573 2209 2008 2008 2009 9 research institute panel (wine experts)	3.56 404 1458 1458 2249 2009 2010 9 research institute panel (wine experts)
Wine phenolic compounds Total anthocyanins (mg/L) Total Polyphenols Content Index or A 280 Total flavonoids (mg/L) Proanthocyanidins or tannins(PR) (mg/L) Section 6 - Wine evaluation Vintage Year of degustation Number of panelists Tasting session Colour	3.15 549 1573 1573 2209 2008 2009 9 research institute panel (wine experts) 8.6	3.56 404 1458 1458 2249 2009 2010 9 research institute panel (wine experts) 8.5
Wine phenolic compounds Total anthocyanins (mg/L) Total Polybenols Content Index or A 280 Total Flavonoids (mg/L) Proanthocyanidins or tannins(PR) (mg/L) Section 6 - Wine evaluation Vintage Year of degustation Number of panelists Tasting session Colour Aroma	3.15 549 1573 1573 1573 2209 2008 2009 9 research institute panel (wine experts) 8.6 7.7	3.56 404 1458 1458 2249 2009 2010 9 research institute panel (wine experts) 8.5 7.7
Wine phenolic compounds Total anthocyanins (mg/L) Total Polybenols Content Index or A 280 Total Flavonoids (mg/L) Proanthocyanidins or tannins(PR) (mg/L) Section 6 - Wine evaluation Vintage Year of degustation Number of panelists Tasting session Colour Aroma	3.15 549 1573 1573 2209 2008 2009 9 research institute panel (wine experts) 8.6 7.7 8	3.56 404 1458 1458 2249 2009 2010 9 research institute panel (wine experts) 8.5 7.7 7.6
Wine phenolic compounds Total anthocyanins (mg/L) Total Polyphenols Content Index or A 280 Total flavonoids (mg/L) Proanthocyanidins or tannins(PR) (mg/L) Section 6 - Wine evaluation Vintage Year of degustation Number of panelists Tasting session Colour Aroma Taste Overall assessment	3.15 549 1573 1573 2209 2008 2009 9 research institute panel (wine experts) 8 8	3.56 404 1458 1458 2249 2009 2010 9 research institute panel (wine experts) 8.5 7.7 7.6

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.

Cooperative	Descriptors and file formats
ECP/GR	Multi Crop Passport Descriptors (FAO/Bioversity 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
Users handbook 🛃 SQL table scheme 📓	 Guidelines for the compilation of MCPD descriptors related to 'trueness to type' What is 'trueness to type' File format for Multi Crop Passport Descriptors
Public access	De Deservictore for characterization
Quick search	B: Descriptors for characterisation
 Advanced search Photo search Characterisation data CCD acterisation data 	Primary and secondary descriptors: tabular listing and single descriptors File format for descriptor recording File format for SSR-marker recording
• SSK-marker data	C : Virus status
Catalogue of varieties On farm maintenance	Guidelines for Elisa test File format for virus status recording
Descriptors/file formats	D. Or form evaluation
Institute codes	D: On tarm evaluation
Important links	Section 1 - General description of the culturar Section 2 - Vineward description
Contact	Section 3 - Ampelography
Disclaimer	Section 4 - Agronomic features
	Section 5 - Enological features
Varieties registered in Europe	Section 6 - Wine tasting results
Home page	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 Perry Berry Bunch Flower Growth
Grape enos	Mature leaf Phenology Shoot SSR-marker Yield Search Reset
Budennistorium für Enstanza, Laevonschaft ent Farboucherstutz	EU. <i>Witis</i> - Copyright JKI 🕲 2007

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

Coopean Pooranine	Institute codes	
Resources	A : Institute codes and contact data □ Listing of all institute codes and their contact data	
Users handbook 🛛 📩	B : Institute codes of GrapeGen06 partners	
SQL table scheme 🛛 🗃	Note: use the list fields to select the search criterion	
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	All institute code: ARMENIA AUSTRIA AZERBAJAN BULGARIA CROATIA CROATIA CROATIA CZECH REPUBLIC FRANCE GEORGIA	
Important links		
Contact		
Disclaimer		
/arieties registered in Europe	EU <i>JVitis</i> - Copyright JKI 🕲 2007	
Home page		



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

Cooperative Programme for Plant	Institute o	rodes						
Generic Search criterion : All institute codes ECP/GR Search result : 223 (1 - 100)								
	PDF Docum	nent						
Users handbook 🗾 📩	-							
SQL table scheme 🛛	Back to sear	ch form Previous page						
Public access	First Ne	ext Last						
Quick search	T							
 Advanced search 	code	Institute	Country					
Photo search		I.N.T.A						
 Characterisation data 	ARG 01	Estación Experimental - Agropecuaria Mendoza	ARGENTINA					
 SSR-marker data 		C.C. 3-5507 Luján de Cujo						
Virus data	ARG 02	Catedra de Viticultura Facultad de Ciencias Agragias II N C	ARGENTINA					
Catalogue of varieties	ARG 02	5505 Charcas de Coria Mendoza	ARGENTINA					
• On farm maintenance		Estación Experimental Agropecuaria Junín						
Descriptors/file formats	ARG025	Instituto Nacional de Tecnología Agropecuaria	ARGENTINA					
Institute codes		INTA Estación Experimental Agronoguaria Dama Caida						
Important links	ARG036	Instituto Nacional de Tecnología Agropecuaria	ARGENTINA					
Contact		5603 San Rafael (Mendoza)						
Disclaimer		Armyanskii Nauchno-Issledovatel'skii Institut Vinogradarstva, Vinodeliya I						
Varieties registered in Europe	ARM 02	Plodovodstva NIIVVIP Armenyan Research Institute of Viticulture, Winemaking and Fruit crops						
	AIGH 02	Armenyan Research Institute of Victoricarcy, Whendiking and Hait crops	ANNENDA					
Home page		Remark: The grapevine collection has been given up.						
Click on the	ARM 03	Armyanskii Nauchno-Issledo. Institut Vinog., Vinodelia I Plodovodstva - Noemberyanskii opornyi punkt Research Institute of Viticulture, Winemaking and Fruit crops -Noembryan testing station	ARMENIA					
		Remark: The grapevine collection has been given up.						
have access to the		Scientific Center of Soil Study and Agrichemistry (SCSA)						
complete contact	ARM 05	Verene	ARMENIA					
		Crientific Center of Vitiguiture, Wigersplain and Ervit annuing (CC) (WE)						
(data, see figure 31.)	ARM 06	Sciencine Center of Viliculture, whemaking and Fruit growing (SCVWF)	ARMENIA					
		Yerevan						
	ARM005	National Academy of Sciences of Armenia Institute of Botany 375063 Yerevan	ARMENIA					
	ARM011	International Academy of Viticulture and Wine Making	ARMENIA					
		5/5002 Televali						

Figure 31: Code ARM011 and respective complete contact data.

European Cooperative	The European Vitis Database							
ECP/GR	Back to search form Previo	US DAGE						
Users handbook 🛛 📩								
SQL table scheme 🛛 🐖								
Public access	Institute code	ARM011						
Quick search	Curator	Samuel GASPARYAN						
 Advanced search Photo search 	Institute	International Academy of Viticulture and Wine Making						
 Characterisation data 	Street and/or P.O.B.	33 Pushkin Street Apartment 10						
 SSR-marker data 	ZIP-Code and City	375002 Yerevan						
 Virus data 	Country	ARMENIA						
 Catalogue of varieties 	Phone	(374-1) 530475 / 233279						
 On farm maintenance 	Fax	(374-1) 233279						
Descriptors/file formats	E-Mail	S-Gasparyan@yandex.ru						
Institute codes	Internet							
Important links Contact Disclaimer	Accessions hold by the institution							
Varieties registered in Europe								
Home page								
	EU. <i>Vitis</i> - Copyright JKI 🔘 2007							



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 (<u>http://eurisco.ecpgr.org</u>).



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 13and 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.

Cooperative	All partner access SSR-marker data
for Plant Genetic Resources	Note: either chose option A or B.
ECP/GR	A : Listing of all accessions
lisers bandbook 👘	Note: in the following table all reference varieties are <u>nightighted.</u> They were used to establish the coding system.
SQL table scheme	
All partner access	SSR-marker data of all accessions described.
• Ouick search	
Advanced search	
 Characterisation data 	B : Specific search
SSR-marker data	Note: use the list fields to select the search criteria
 Photo search 	Use % as wildcard at the beginning of a keyword for searching for the word with multiple
 Virus data 	beginnings.
Work package	
• WP I	
• WP II	Accession name
On farm maintenance	Variety name
Vitis sylvestris populations	
• WD V	Accession number
Dentrop energific errors	Origin of the data
Confidentiality agreement	
Connuentiality agreement	
Login successful 25 DEU098 Logout	Remark: For a search of varieties via coded allele lengths of SSR-markers see the: • All partner access / Advanced search level respectively. • Specific partners access / Advanced search level.
	Search Reset
Budenninisterium für Erstenung, Laefwrtschaft	

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.

Search oriterion : all accessions Search result : 4364 (1 - 100) Export passport data	European Cooperative	All partner a	access	SSR-marker	data							
LURCH Deskt to search form Previous name Export passport dat Report passport dat Repo	for Plant Genetic Resources	Search criterio Search result :	n : all acce : 4364 (essions 1 100)								
I First / Next Last Name Acrossin Acrosin Acrossin Acros	ECP/GR	Back to search	form P	revious page	Export pa	ssport da	ita Export	t SSR-marke	er data 🛛 Export ref	erence varieties		
Iters handbook Accession name Color of solutable scheme Accession name Accession solutable scheme Accession name Renarks bit dive variety Holding mame Accession number (access name Species Subtax Con- origit dive • Quick search • Advancet search • Characterisation data • SSR-marker dat		First Nex	t Last	L								
SQL table schemeAccession nameAccession skinAccession schemeSpeciesSubtaxCourAll partner accessAmmeSeeSeeSeeSeeSeeSpecies </th <th>Users handbook 🛛 📩</th> <th></th> <th></th> <th></th> <th>_</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>_</th> <th></th>	Users handbook 🛛 📩				_						_	
All partner access Nume skin Variety Vito Name Indication to data to data <thto data<="" th=""> <</thto>	SQL table scheme 🕢	Accession	Color of berry	Variety name	to type	Variety number	Remarks to the	Holding	Accession number (access	Species	Subtaxa	Country of origin of
Advanced search RSB 1 clone RSB 1 yes 4028 RA274 RA274-918123 Index	All partitier access	nume	skin		variety	NIAC	name	mscreacion	to data)			the variety
• Characterisation data 110 R done 110 R done 10 R yes 10065 FRA274 FRA274-9159537 Set FRA274 • SSh-marker data 110 R done 110 R 10 R yes 10065 FRA274 FRA274-9159537 Set FRA74 • Virus data 110 R done 110 R yes 10065 FRA274 FRA274-9159537 Set FRA74 • WP I 164 1103 Pa done yes 9203 FRA274 FRA274-9159537 Set FRA74 • WP I 103 Pa done yes 923 FRA274 FRA274 FRA274-9005E11 Set FRA74 • WP I 125 AA Molek 125 AA = Kober yes 1031 FRA139 FRA139-9191Mp1 INTERGENERIC FRA14 • Vitis sylvestris populations 161-40 Color 161-49 Color yes 3016 FRA274 FRA274 FRA274-9001E15 FRA14 FRA19 • Vitis sylvestris populations 161-49 Color 161-49 Color yes 3136 FRA274 FRA274 FRA274-9031E15 SUBSP FRA14 • Onf dentiality agreement <td>Advanced search</td> <td>RSB 1 clone 109</td> <td></td> <td>RSB 1</td> <td>yes</td> <td>4028</td> <td></td> <td>FRA274</td> <td>FRA274-9181E3</td> <td></td> <td></td> <td></td>	Advanced search	RSB 1 clone 109		RSB 1	yes	4028		FRA274	FRA274-9181E3			
• Photo search 110 R dom 100 R 100 R yes 10065 PRA274 PRA274-9159500 PRA274-915150 PRA274-915150<	 Characterisation data SSR-marker data 	110 R clone 152		110 R	yes	10065		FRA274	FRA274-9159E37			FRANCE
Work package 1103 Pa clone R 1103 Pa yes 9023 RA274 RA274-9003E11 Approx Back Tate · WP I · WP I 125 AA back 125 AA ves 1234 FRA139 FRA139-9191Mtp1 MTERGENERIC Amprox MTERGENERIC MTERGENERIC MTERGENERIC <t< td=""><td> Photo search Virus data </td><td>110 R clone 164</td><td></td><td>110 R</td><td>yes</td><td>10065</td><td></td><td>FRA274</td><td>FRA274-9159E30</td><td></td><td></td><td>FRANCE</td></t<>	 Photo search Virus data 	110 R clone 164		110 R	yes	10065		FRA274	FRA274-9159E30			FRANCE
• WP II 125 AA black 125 AA kolek kolek 125 AA kolek kolek 125 AA kolek 126 A kolek 126 A kolek 125 AA kolek 126 A kolek	• WP I	1103 Pa clone 768		1103 Pa	yes	9023		FRA274	FRA274-9003E11			ITALY
140 Ru clone 140 Ru clone 140 Ru u yes 10351 FRA274 FRA274-9001E15 Intervalue Intervalue Vitis sylvestris populations 161-49 C clone 161-49 C yes 3016 FRA274 FRA274-9031E15 Intervalue <	WP II On farm maintenance	125 AA	black	125 AA = Kober 125 AA	yes	12344		FRA139	FRA139-9191Mtp1	INTERGENERIC CROSSING		HUNGARY
101-49 C clone wP v 161-49 C we 3016 FRA274 FRA274-9031E5 Icon FRAN Pattner specific access Confidentiality agreement 1616 C clone 98 1616 C wes 3134 FRA274 FRA274-9039E2 Icon FRAN agreement 4dmirable courtiler green Admirable courtiler ves 68 true name france FRA139-614Mtpt VINIFERA VINIFERA SUBSP. VINIFERA FRAN adreuli theleana black AFFENTHALER black AFFENTHALER ves 79 Icon Ita035 Ita035-21 VINIFERA VINIFERA SUBSP. VINIFERA SUBSP.	Vitis sylvestris populations	140 Ru clone 265		140 Ru	yes	10351		FRA274	FRA274-9001E15			ITALY
Partner specific access 1616 C done 1616 C yes 3134 FRA274 FRA274-9039E2 Icon FRAN Confidentiality agreement Admirable de Courtiller green Admirable de Courtiller yes 68 true name FRA139 FRA139-814Mtp VITIS VITIFERA SUBSP. FRAN EU098 Logout Adreulii black no Image: Subser in the subser in	• WP V	161-49 C clone 170		161-49 C	yes	3016		FRA274	FRA274-9031E5			FRANCE
admirable de Courtiller green Admirable de Courtiller yes 68 true name FRA139 FRA139-B14Mtpl VITTS LINNÉ SUBSP. VINIFERA FRAN FRAN SUBSP. EU098 Logout ddreuli kheikanaa black no image	Partner specific access Confidentiality agreement	1616 C clone 98		1616 C	yes	3134		FRA274	FRA274-9039E2			FRANCE
EU098 Logozi Adreuli tkhelkana black no ITA035 ITA035 VITIS ITA035-21 VITIS VINIFERA SUBSP. rape enos IFAD INFERA black AFFENTHALER yes 79 DEU098 DEU098-1992-074 VINIFERA SUBSP. AGADAI green not checked 95 DEU098 DEU098-1980-120 VINIFERA SUBSP.	ogin successful	Admirable de Courtiller	green	Admirable de Courtiller	yes	68	true name	FRA139	FRA139-814Mtp1	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	FRANCE
Image: Personal person	EU098 Logout	Adreuli tkhelkana	black		no			ITA035	ITA035-21	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	
AGADAI green not checked 95 DEU098 DEU098-1980-120 VIIIFERA SUBSP. VINIFERA LINNÉ VINIFERA	rape enos	AFFENTHALER	black	AFFENTHALER	yes	79		DEU098	DEU098-1992-074	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	GERMANY
	Noted House End Office Internet House States Training Control of States Training Control of States Training Control of States St	AGADAI	green		not checked	95		DEU098	DEU098-1980-120	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	DAGHESTAN
WULL VOLLAUE AGASFARK black HUN045 HUN045-49	WULK DOLKOUP	AGASFARK	black					HUN045	HUN045-49			
WP I Aghbizh green no ITA035 ITA035-22 VINIFERA SUBSP. VINIFERA VINIFERA	• WP I • WP II	Aghbizh	green		no			ITA035	ITA035-22	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	
On tarm maintenance Vitis sylvestris populations Vitis sylvestris populations Vitis sylvestris populations Vitis sylvestris population	 On farm maintenance Vitis sylvestris populations Vitis sylvestris plants 	AGHEDENE	green					ITA388p	ITA388p-ersaAGH	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	
Agiorgitico noir black Aghiorgitiko yes 102 FRA139 FRA139-1816Mtp2 VINIFERA SUBSP. VINIFERA GREE VINIFERA VINIFERA CREE	• WP V Partner specific access	Agiorgitico noir	black	Aghiorgitiko	yes	102		FRA139	FRA139-1816Mtp2	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	GREECE
Confidentiality agreement AGIORGITIKO black 102 AUT024 AUT024-3	Confidentiality agreement	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

- (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.

European Cooperative	All partner access C	haracterisation data		
for Plant Genetic Resources	Note: either chose option A	or B.		
ECP/GR	A : Listing of all access	ions —		
	Characterisation of	ata of all accessions described.		
Users handbook 🛛 📩				
SQL table scheme 🛛 🐼	B : Specific search —			
All partner access	Note: use the list fields	to select the search criteria		
 Quick search 	Use % as wildcard at th	e beginning of a keyword for searching for the word with mu	ultiple	
 Advanced search 	beginnings.			
Characterisation data				
SSR-marker data				
• Virus data	Accession name			
Work package	¥ariety name			
• WP I	Assossion number			
• WP II	Accession number			
On farm maintenance	Year of description	▼		
 Vitis sylvestris populations 	Origin of the data	.		
 Vitis sylvestris plants 	origin of the duta			
• WP V				
Partner specific access				
Confidentiality agreement				
Login successful	Search Reset	l.		
DEUROR				
Logoda	EU. <i>Vitis</i> - Copyright JKI 🔘 200	7		
Bundesministerium für Ersähnung, Landwirtschuft				

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

Cooperative	All partner a	All partner access Characterisation data												
for Plant Genetic Resources	Search criterio Search result :	n : all acce 2748 (ssions 1 100)											
ECP/GR	Back to search	form Pr	evious page	Export p	assport o	data Expo	ort characte	risation data Expo	irt SSR-m	arker data				
u an a tha	First Nex	t Last												
SOI table scheme	•	Color of		Trueness	Variety	Remarks		Accession number						
All partner access	name	berry skin	Variety name	of the variety	number VIVC	accession	institution	(access to ampelographic data)	Species	Subtaxa	of the variety	description		
Quick search Advanced search Characterisation data	1527-1-EM	green	1527-1-EM	not checked			CZE041	CZE041-24V0130047	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	FRANCE	2007-2009		
 SSR-marker data Photo search Virus data 	1540-51-EM	green	1540 - 51 - EM	not checked			CZE041	CZE041-24V0130050	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	FRANCE	2007-2009		
• WP I	1624-42	green	1624 - 42	not checked			CZE041	CZE041-24V0130051	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	FRANCE	2007-2009		
WP II On farm maintenance Vitis sylvestris populations	32-B-8	green	32 - B - 8	not checked			CZE041	CZE041-24V0130052	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		2007-2009		
 Vitis sylvestris plants WP V 	34 - EM FDEY(BER.x RIP.)						GRC010	P07#B-7				1999		
Destroy energies process	420 A						GRC010	P07#B-4				1999		
Confidentiality agreement	ABELLO	green		no reference			ITA388	ITA388-G001	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	GREECE	2007		
Login successful 29 DEU098 Logout	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	Trevisana nera	yes		misnomer	ITA360	ITA360-516	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA	ITALY	2009		
Dandesministrof en 12r Ernähnung, Landarisschuft und Verbrauchunschutz	Admirable de	greep	Admirable de	×05	68	true name	FR &1 39	FR 4139-814Mto1	VITIS	SUBSP.	FRANCE	2007		

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

	A	В	С	D	E	F	G	Н		J	K	L	M	N
1	E	kport charac	terisation da	la										
2		I												
3	Workpackag	1-INSTCODE	2-ACCENUM	11-ACCENAN	A-VARIETY I	B-BERRY CO	year of desc	OIV001	OIV003	OIV004	01V006	01V007	OIV008	OIV016
1424	WP2	FRA139	FRA139-0Mt	Burdigala	Cépage non i	BLACK	2009	5	3	7	3	2	! 1	1
1425	i WP2	FRA139	FRA139-0Mt	Inconnu Cors	Cépage non i	BLACK	2009	5	5	7	5	3	1 3	1
1426	WP2	FRA139	FRA139-0Mt	Cabernet gou	Cépage non i	BLACK	2008	5	2	7	3	3	2	1
1427	WP2	FRA139	FRA139-0Mt	Cahours	Cépage non i	BLACK	2008	5	3	7	3	1	1	1
1428	WP2	FRA139	FRA139-0Mt	Camaraou bla	Camaraou fei	GREEN	2007	5	1	9	3	2	2	1
1429	WP2	FRA139	FRA139-0Mt	Cayam	Cépage non i	GREEN	2008	5	1	9	3	3	I 3	1
1430	WP2	FRA139	FRA139-0Mt	Chacoli noir	Cépage non i	BLACK	2008	5	1	7	3	3	1 1	1
1431	WP2	FRA139	FRA139-0Mt	Chasselas ro	Cépage non i	ROSE	2008	5	5	5	5	3	I 3	1
1432	WP2	FRA139	FRA139-0Mt	Cruixen	Cépage non i	BLACK	2008	5	5	7	3	1	1	1
1433	WP2	FRA139	FRA139-0Mt	Inconnu bland	Cépage non i	GREEN	2008	5	5	7	1	1	1	1
1434	WP2	FRA139	FRA139-0Mt	Inconnu Marr	Cépage non i	BLACK	2008	5	5	7	3	3	1 1	1
1435	WP2	FRA139	FRA139-0Mt	Inconnu n°53	Cépage non i	BLACK	2008	5	1	7	3	2	! 1	1
1436	WP2	FRA139	FRA139-0Mt	Kniperlé préc	Cépage non i	GREEN	2008	5	1	9	1	3	1 3	1
1437	WP2	FRA139	FRA139-0Mt	Kniperlé tardi	Cépage non i	GREEN	2008	5	3	9	3	2	2	1
1438	WP2	FRA139	FRA139-0Mt	Madeleine Cé	Cépage non i	GREEN	2009	5	3	5	5	2	! 1	1
1439	WP2	FRA139	FRA139-0Mt	Malvasia bian	Cépage non i	GREEN	2009	5	1	5	3	2	! 1	1
1440	WP2	FRA139	FRA139-0Mt	Malvoisie de l	Cépage non i	GREEN	2009	5	1	7	3	3	1 1	1
1441	WP2	FRA139	FRA139-0Mt	Notre dame	Cépage non i	BLACK	2009	5	1	7	5	2	! 1	1
1442	WP2	FRA139	FRA139-0Mt	Péridac	Cépage non i	BLACK	2009	5	1	5	5	3	2	1
1443	WP2	FRA139	FRA139-0Mt	Belle Denise	Cépage non i	BLACK	2008	5	5	9	3	2	! 1	1
1444	WP2	FRA139	FRA139-0Mt	Plant Baron T	Cépage non i	BLACK	2009	5	5	7	3	1	1	1
1445	WP2	FRA139	FRA139-0Mt	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.

European Cooperative	Work package III On farm evaluation	
for Plant Genetic Resources	Note: either chose option A or B.	
ECP/GR	A : Accession table listing	
	☑ Listing of the complete table of varieties studied.	
Users handbook 🛛 🛃		
SQL table scheme 🛛 🐼	B : Specific search	
All partner access		
Ouick search	Note: use the list fields to select the search oriteria.	
Advanced search	be % as windard at the beginning of a keyword for searching for the word with multiple beginning	
 Characterisation data 	beginnings.	
 SSR-marker data 		
Photo search	Variety name	
Virus data		
Work package	Origin of the data	
• WP I	Country of origin of the variety	
• WP II		
On farm maintenance		
 Vitis sylvestris populations 		
 Vitis sylvestris plants 		
• WP V	Search	
Partner specific access	- Hoster	
Confidentiality agreement		
sormachicane, agreement	EU.Vitis - Copyright JKI © 2007	
Login successful		
DEU098 Logout		

Figure 37: Data can be downloaded section-wise.

Cooperative	Work package	III On f	farm evaluation		
ECP/GR	Search criterion : : Search result : 56 Back to search for	all varieties (156 <u>m Previous</u>) page Export data >> Section1 Section2 Section	n3 Section4 Secti	on5 Section6
Users handbook 🗾 📩	FIFSt Last				
SQL table scheme 🛛	Variety name	Color of		Country of origin	Download On farm
All partner access	(access to data)	berry skin	Holding institution	of the variety	data
 Quick search Advanced search 	Aghedene	green yellow	CRA - Centro di ricerca per la viticoltura, #6, (in collaboration with CRA - Unità di ricerca per la Viticoltura (ITA372))	Italy	(PDF-File) view
Characterisation data	Albillo	green yellow	I.M.I.D.R.A. Partner 3	Spain	view
SSR-marker data	Arcè	blue dark	University of Verone	Italy	view
Virus data	Babica	blue dark	Faculty of Agriculture, University of Zagreb	Croatia	view
Work package	Barsaglina	blue dark	CRA – Centro di ricerca per la viticoltura, #6, (in collaboration with CRA – Unità di ricerca per la Viticoltura (ITA372))	Italy	view
• WP I • WP II	Berzamino	blue dark	CRA - Centro di ricerca per la viticoltura, #6, (in collaboration with CRA - Unità di ricerca per la Viticoltura (ITA372))	Italy	view
On farm maintenance	Brajdica bijela		Faculty of Agriculture, University of Zagreb	Croatia	view
 Vitis sylvestris populations Vitis sylvestris plants 	Brambana	blue dark	CRA - Centro di ricerca per la viticoltura, #6, (in collaboration with CRA - Unità di ricerca per la Viticoltura (ITA372))	Italy	view
• WP V	Capolongo	green yellow	CRA - Centro di ricerca per la viticoltura, #6, (in collaboration with ARSIAL)	Italy	view
Confidentiality agreement	Casetta	blue dark	Istituto Agrario di S. Michele a/A	Italy	view
	Cjavalgjàn	blue dark	CRA – Centro di ricerca per la viticoltura, #6, (in collaboration with CRA – Unità di ricerca per la Viticoltura (ITA372))	Italy	view
DEU098 Logout	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

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.

Cooperative Programme	Work package IV populations Vitis sylvestris germplasm
ECP/GR	Note: either chose option A or B.
Users handbook 5 SQL table scheme 1 All partner access Partner specific access	 A : Accession table listing Listing of the complete table of <i>Vitis sylvestris</i> populations studied.
Online working • Quick search • Advanced search • Characterisation data • SSR-marker data • Vitis sylvestris populations • Photo search • Vitrus data	 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.
• MCPD data import • WP I / WP V import • WP II / WP V import • Sylvestris populations import • Photo import • Virus data import	Population number
Confidentiality agreement	Country of origin Number of plants Population status Population rick
Budennistation für Erinhung, Lawwitstahl and Förbouchunktut	

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

Cor Pro 1 R	eccp/GR
	Users handbook 🛃
	SQL table scheme 🛛 🧧
All .	partner access Quick search Advanced search Characterisation data SSR-marker data Photo search Virus data York package WP I On farm maintenance Vitis sylvestris populations Vitis sylvestris plants WP V
Pa	rtner snecific access
Cc	nfidentiality agreement
	Login successful

Work package IV | Vitis sylvestris populations

Search criterion Search result : 2	: all populati 25 (1	ions 100)		
Back to search fo	orm <u>Previo</u>	ous page Export populations data		
First Next	Last			
Collecting institute	Population number (access to data)	Collection site	Country of origin	Number of plants
AUT024	Lob 22	Lobau	AUSTRIA	2
AUT024	Lob 23	Lobau	AUSTRIA	2
AUT024	Lob 24	Lobau	AUSTRIA	3
AUT024	Lob 3	Lobau	AUSTRIA	2
AUT024	Lob 4	Lobau	AUSTRIA	1
DEU098	Ketsch	In the neighbourhood of the village Ketsch on a Rhine- Island, 3 km from Speyer	GERMANY	80
DEU494	Hoerdt	East from the village Hoerdt	GERMANY	2
DEU494	Reißinsel	In the neighbourhood of the village Mannheim on a Rhine-Island	GERMANY	3
ESP080	BA-01	RIO ARDILA. CAMINO DE JEREZ (JEREZ DE LOS CABALLEROS)	SPAIN	6
ESP080	BA-02	LOS REMEDIOS (FREGENAL DE LA SIERRA)	SPAIN	7
ESP080	BI-01	URKIOLA (MAÑARIA)	SPAIN	4
ESP080	BI-BU-01	RIO CADAGUA (ALONSOTEGUI)	SPAIN	5
ESP080	BU-01	PEÑA ANGULO. REFUGIO (ARTZINIEGA)	SPAIN	4
ESP080	CA-01	EL CHORREADERO (PRADO DEL REY)	SPAIN	8
ESP080	CA-02	RIO MAJACEITE (EL BOSQUE)	SPAIN	10
ESP080	CA-03	MANANTIAL EL QUEJIGO (EL BOSQUE)	SPAIN	4
ESP080	CA-04	PANTANO DE LOS HURONES (PRADO DEL REY-ALGAR)	SPAIN	8
ESP080	CA-05	RIO TAVIZNA (UBRIQUE)	SPAIN	4
ESP080	CA-06	PRADO DEL REY	SPAIN	3
ESP080	CA-08	AMBICIONES (EL BOSQUE)	SPAIN	7
ESP080	CA-09	RIVERA MILLAN (UBRIQUE)	SPAIN	8

Figure 40: Description of the Vitis sylvestris population site.

Cooperative Programme Genetic Resources
ECP/GR
Users handbook 🛃
SQL table scheme
All partner access
Partner specific access
Online working
Quick search
Advanced search Characterication data
 SSR-marker data
 Vitis sylvestris populations
• Photo search
• Virus data
MCPD data import
 WP I / WP V import
• WP II / WP V import
 Sylvestris populations import
Proto Import Visus data import
• virus data import
Confidentiality agreement
Login successful
DEU098 Logout
Grape 6
Bandesministerium für Ernämsen, Leefwittschaft

Cooperative Programme for Plant Genetic Resources

European

Vitis sylvestris germplasm - Populations	
Back to search form Previous page	
Populations	
Population number	Ketsch
Institute code	DEU098
Decoded collecting institute	
Population name	
Country of origin	Germany
Рор	ulation 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 Vitis vinifera subsp. vinifera near population	
Number of other Vitis species near population	
Distance between Vitis vinifera subsp. vinifera / other Vitis species and Vitis sylvestris 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 Würtemberg

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

Programme for Plant	
ECP/GR	Note: either chose option A or B.
	A : Accession table listing
Users handbook 🛛 📩	🗖 listing of the complete table of 1995 subjective plants studied
SQL table scheme 🛛 👼	Listing of the complete table of <i>Vias sylves aris</i> plants studied.
Il partner access	
artner specific access	
Online working	- B · Specific coarch Vitic sulvestric plants
Quick search	b. Specific search was sylves as plants
Advanced search Characterization data	
SSR-marker data	Note: use the list fields to select the search criterias.
Vitis sylvestris populations	Use % as wildcard at the beginning of a keyword for searching for the word with multiple
Photo search	beginnings.
• Virus data	
MCPD data import	
• WP I / WP V import	Provideting symptom
• WP II / WP V import	
 Sylvestris populations import 	
Proto Import Visus data import	
• virus data import	
Jornicericality agreement	
Login successful	According southern
DEU098 Logout	Accession number
	Color of house ship
Careful Contractor	Plant sou
Bundesministeriom für Entlinung, Landwirtschaft	
1817	

Search Reset

Figure 42: Listing of the Vitis sylvestris plants studied.

Cooperative	Work package IV Vitis sylvestris plants								
for Plant	Search criterion : all plants Search result : 631 (1	100)							
ECP/GR	Back to search form Previ	ous page Ex	port plants data						
	First Next Last								
SOL table scheme	Collecting number (access	Collecting	Population	Accession	Color of berry	Plant			
All nartner access	to uata)	msutute	number	Econon.	SKIII	sex			
Ouick search	BA 1,1	ESP080	BA-01	BGVCAM3064	black				
Advanced search Characterisation data	BA 1,6	ESP080	BA-01	ESP080- BGVCAM3063	black				
SSR-marker data Photo cearch	BA 2,1	ESP080	BA-02	ESP080- BGVCAM3062					
• Virus data	BA 2,2	ESP080	BA-02	ESP080- BGVCAM3061					
• WP I	BA 2,3	ESP080	BA-02	ESP080- BGVCAM3060	black				
WP II On farm maintenance	BA 2,5	ESP080	BA-02	ESP080- BGVCAM3059					
 Vitis sylvestris populations Vitis sylvestris plants 	BA 2,6	ESP080	BA-02	ESP080- BGVCAM3058					
• WP V	BI 1,1	ESP080	BI-01	ESP080- BGVCAM3179					
Confidentiality agreement	BI 1,2	ESP080	BI-01	ESP080- BGVCAM3178					
Login successful	BI 1,3	ESP080	BI-01	ESP080- BGVCAM3177	black				
DEU098 Logout	BI 1,4	ESP080	BI-01	ESP080- BGVCAM3199	black				
Grane A	BI-BU 1,1	ESP080	BI-BU-01	ESP080- BGVCAM3184					
	BI-BU 1,2	ESP080	BI-BU-01	ESP080- BGVCAM3183					
Contract Restoration	BI-BU 1,3	ESP080	BI-BU-01	ESP080-					

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

European Cooperative Programme	Vitis sylvestris germplas
	Back to search form Previo
Ecr/Gr	Plants
	Collecting number
Users handbook 🛛 📩	Population number
SQL table scheme 🛛 🐱	Accession number
All partner access	Institute code
Quick search	Acquisition date
 Advanced search 	Color of berry skin
 Characterisation data 	Plant sex
 SSR-marker data 	Country of origin
 Photo search 	Photos
 Virus data 	Characterisation data
Work package	SSR-marker data
• WP I	
• WP II	
On farm maintenance	
Vitis sylvestris populations	
• vius sylvesuis plants	Collecting site
• 00F 0	Location of collecting site
Partner specific access	Latitude of collecting site
Confidentiality agreement	Longitude of collecting site
Login successful	Elevation of collecting site
	Collecting date
DEU098 Logout	Collecting / acquisition source
	Duplication site
Grape	Decoded collecting institute
Bundosministerium für Ensilvssag, Ladekainschult and Vahroschurtschutz	EU. <i>Vitis</i> - Copyright JKI © 2007

Vitis sulu mplasm - Plants taic

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

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 pdfdocument, 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 <u>accession number</u> is the <u>primary key</u> 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⁽¹⁾ 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.

¹ These numbers or codes are available from <u>http://apps3.fao.org/wiews</u> 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.

European Cooperative Programme Genetic Resource	Upload MCPD - Data
ECP/GR	1. Upload your excel file here
Users handbook	H:\WORD\GENRES NEU\WP6 Datenbank\MCPD DE Durchsuchen
SQL table scheme 🕑	2. Your uploaded file: (first 10 rows)
Partner specific access Online working • Quick search • Advanced search • Characterisation data • SSR-marker data • Vitis sylvestris populations • Photo search • Virus data	
MCPD data import SSR-marker data import Characterisation data import Sylvestris populations import Photo import Virus data import Confidentiality agreement	
Login successful 23 DEU098 Logout	
	<u>.</u>

3. save into database save or cancel upload cancel

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.

European Programme Genetic Resources	Uploa	d MCI	PD - Data				
ECP/GR	1.	Uploa	ad your excel file here	ONLINE	W Durchsuchen un	hard	
Users handbook Z SQL table scheme All partner access Partner specific access	2.	Your	uploaded file: (first 10 rows)				
Online working		Itm.	Pls select manually	-	INSTCODE	ACCENUMB	•
Quick search Advanced search Characterisation data SSR-marker data Vitis sylvestris populations Photo search Vitrus data MCPD data import SSR-marker data import Characterisation data import Sylvestris populations import Virus data import Confidentiality agreement Login successful		1 2 3 4 5 6 7 8 9 10	GENUS ID_VITIS INSTCODE LINK_TO_KENN_NR LONGITUDE ORIGCTY OTHERNUMB PARTINER_ACCESSION_NUMBER REMARKS SAMPSTAT SPAUTHOR SPECIES STANDORT STORAGE SUBTAUTHOR SUBTAXA TRUENESS_TO_TYPE VARIETY_NAME VARIETY_NAME		INSTCODE DEU099 DEU098 DEU098 DEU098 DEU098 DEU098 DEU098 DEU098 DEU098 DEU098 DEU098	ACCENUMB DEU098-2006-000 DEU098-2006-090 DEU098-2006-190 DEU098-2006-199 DEU098-2006-1992 DEU098-2006-092 DEU098-2006-094 DEU098-1980-117	
	3.	selec save or ca	There is/are 1 column(s) t t the corresponding field no Click into table to separat into database save ncel upload cancel	which ame. te hea	need to be assigne ader from data. Clic	d. Please click on the drop down menu to k on first data row.	

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

European Cooperative Gor Plant Genetic	Upload M	CPD - Data			
ECP/GR	1. Up	load your excel file here WORD\GENRES NEU\WP6 Datenba	nKONLINE V Durchsuchen. uplo	bad	
Users handbook 🔁 SQL table scheme 🗃 All partner access Partner specific access	2. You	ur uploaded file: (first 10 rows)			
Online working	It	m. TRUENESS_TO_TYPE	INSTCODE	ACCENUMB	•
Quick search	1	TRUEeeeNESS_TO_TYPE	INSTCODE	ACCENUMB	
 Advanced search 	2	not checked	DELI099	DEU098-2006-148	
 Characterisation data 	3	not onookoo	DEU098	DEU098-2006-090	
 SSR-marker data 	4		DEU098	DEU098-2006-091	
 Vitis sylvestris populations 	5	not checked	DEU098	DEU098-2006-149	
Photo search	6	not checked	DEU098	DEU098-2006-150	
Virus data	7		DEU098	DEU098-2006-092	
MCPD data import	8		DEU098	DEU098-2006-093	
 SSR-marker data import 	9	b and all and	DEU098	DEU098-2006-094	
Characterisation data import	1	J not checked	DE0098	DE0098-1980-117	
 Sylvestris populations import 					
Photo import					
Virus data import					
Confidentiality agreement					
Login successful					Þ
		 All columns assigned Click into table to sepa 	rate header from data. Clid	< on first data row.	

3. save into database save or cancel upload cancel

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.

Europerative Programs Genetic Resource ECP/GR	Upload	MCPD - Data			
		produ your excer me nere			
	F	H:\WORD\GENRES NEU\WP6 Datenb	ank\ONLINE V Durchsuchen upl	oad	
Users handbook 🛛 📶					
SQL table scheme 🛛 📝	2. Y	'our uploaded file: (first 10 rows	1		
All partner access			<u>′</u>		·····
Partner specific access					
Online working		Itm. TRUENESS_TO_TYPE	INSTCODE	ACCENUMB	-
Quick search		1 TRUEeeeNESS TO TYPE	INSTCODE	ACCENUMB	
 Advanced search 		2 estated	DELIGOR	DEU000.0006.140	
 Characterisation data 		2 not checked	DEU099	DEU098-2006-090	
 SSR-marker data 		4	DEU098	DEU098-2006-091	
 Vitis sylvestris populations 		5 not checked	DEU098	DEU098-2006-149	
Photo search		6 not checked	DEU098	DEU098-2006-150	
Virus data		7	DEU098	DEU098-2006-092	
• MCPD data import	1	8	DEU098	DEU098-2006-093	
GOD graduated the instant		9	DEU098	DEU098-2006-094	
SSR-marker data import		10 not checked	DEU098	DEU098-1980-117	
Characterisation data import					
Sylvestris populations import					
Photo import					
 Virus data import 					
Confidentiality agreement					
Login successful 23 DEU098 Logout					

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".



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.

Cooperation of Plant Resources ECPJ GR	<u>_</u> !	From the following acc They were not listed in the There are two possibilities 1. Deletion of an acc	ession(s) primary and secon MCPD-file you just imported. : : :ession: Click on the icon in fro on will be deleted as well.	Idary descriptor data or photos reco	orded in Genres081 exist. ession.Attention: Any record (deta, photos)
Users handbook 🛛 📩		-			
SQL table scheme 🛛 📝		2. Maintenance of th	e accession: The accession ar	id corresponding data will be maintained	under the old ACCENUMB of Genres081.
All partner access					
Partner specific access	Acces	ssion number	Photos	Ampelographic data	SSR marker data
Online working	DEU09	98-1980-117 ¹⁷	1 ^{i*}	1 ⁱⁿ 2 ⁱⁿ	
 Quick search 	CO DEUOS	98-1980-126 ^{i*}	112		
Advanced search		98-2002-002 ¹⁷	1.13		
Characterisation data SSR marker data	63 P01#2	21-045-001-045-0202	- 1 ²³	1 22	
Vitis sylvestris populations	0 D01#3	21-047-001-047-020	12	1 222	
Photo search	· P01#2	21-047-001-047-020	1.2	1 ~ 2*	
• Virus data	2 PU1#2	21-048-001-048-020*	1*	1 "2"	
MCPD data import	😺 P01#2	21-049-001-049-020 ¹³	1 ^{2*}	1 ¹ ³ 2 ¹	

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.

European Cooperative Programme	Partner specific	Partner specific access Quick search								
ECP/GR	Search criterion : D > Julius Kühn-Iı Institut für Re D-76833 Sieb GERMANY	Search criterion : DEU098 > Julius Kühn-Institut, Bundesforschungsinstitut für Kulturpflanzen (JKI) Institut für Rebenzüchtung Geilweilerhof D-76833 Siebeldingen GERMANY								
Users handbook 🗾 📩	Search result : 161	(1	100)							
SQL table scheme 🛛	Back to search forn	n <u>Pre</u>	vious page Exp	ort passport data						
All partner access										
Partner specific access	First Next I	Last								
Online working		Color						_		
Quick search	Accordian name	of	Vaniatu pama	Accossion number	Enocios	Eubtaua	Subtaxa	Country of	Edit	Delete
 Advanced search 	Accession name	berry	variety name	Accession number	species	Sublaxa	authority	variety	record	record
 Characterisation data 		skin								
 SSR-marker data 	27 BLAUE	black	EICHELTRAUBE	DEU098-2006-150	VITIS VINIFERA	SUBSP.				•
 Vitis sylvestris populations 	LICHEETKAODE		DEMO		LINNE	VINILERA				
 Photo search Virus data 	FESTE HONIGGELBE BEERE	green	UNBEKANNT DEU98-2006-092	DEU098-2006-092						ω
 MCPD data import SSR-marker data import 	35 UNBEKANNT OVALE BEERE		UNBEKANNT DEU98-2006-093	DEU098-2006-093						Θ
 Characterisation data import Sylvestris populations import 	ABENDROETE	green	ABENDROETE	DEU098-1980-117	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		GERMANY		•
 Photo import Virus data import 	ABJOSH	green	ABJOSH	DEU098-1980-118	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		AFGHANISTAN		ω
Confidentiality agreement	ABLA AGANYN ISYUM	green	ABLA AGANYN ISYUM	DEU098-1980-706	VITIS VINIFERA LINNÉ	SUBSP. VINIFERA		UKRAINE		•
DEU098 Logout	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 C no C not checked C uncertain C no reference	
1.	Institute Code FAO Institute Code of the institute where the Accession is maintained. Example: DEU998	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	DEU098-2001-090	
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. Fammle: F&MP 100		
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). Formatic - ROUTERCODE).		
5. - 9.	Genus / Species / Species authority / Subtaxa / Subtaxa authority Genus name for taxon, in latin. Initial uppercase letter required. Specific epithet portion of the scientific name, in latin, in lowercase letters. The authority for the species name. Example: Vite winfera Linit(% subsp. vinfera	VITIS VINIFERA LINNÉ 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 registared or other formal designation given to the accession. First letter uppercase. Multiple names separated with semicolon without space. Example: Rheinische Vorgebirgstrauben;Emma;Avlon	PICOLIT	
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 Semmer: 2007610	2001	
Α.	Variety Name	DATAFANT	
	Name of the variety, after it has been identified with certainty Example: Prokupaz	DALAFANT	
в.	Berry color Color of the berry skin: B (white), N (black), Rs (rose), G (grey) and Rg (red) Example: Rg	C black (N) C black-grey (N-G) C black-red (N-RG) C black-violet (N-V) G green (B) C green-black (B-N) C green-grey (B-G) C green-red (B-RG)	C green-rose (B-RS) C grey (G) C grey-rose (G-RS) C red (RG) C red-violet (RG-V) C rose (RS) C rose (RS) C violet (V)
с.	Country of origin of the variety Code of the country in which the variety originated Example: ARM	HUN - HUNGARY	
D.	Year In which the variety was created as YYYY <i>Example</i> : 1226		
Е.	Variety number Link to Kenn-No.	22932	
F.	Confirmation by ampelography Example: yes		
G.	Confirmation by SSR-markers Example: yes	yes	
н.	Confirmation by bibliography		
I.	Bibliography (volume)		
к.	Bibliography (page)		
L.	Confirmation by others		
	Partner accession number		
	ID-Vitis		
м.	Remarks to the accession name (classification resp. evaluation of the accession name)	synonym	
N.	Questionable variety	isynonym misnomer homonym dialectic term alternative spelling	
		cannot be defined true name	

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.

European Cooperative Programme for Plant	Partner specific access	Upload of photos				
Resources	Remarks for uploading p	hotos				
ECP/GR	File names matching the req	uired format (accenumb_accename_categ	ory[_additional text].jpg) are automatically detect	ed by programm:	
Users handbook 🔁 SQL table scheme 🗃 All partner access Partner specific access	categories: (use the abbre • ST = Shoot tip • ML = Mature leaf • HL = Herbarized leaf • FL = Flower additional text: optional for	viation for the part of the plant) • BU = Bunch • BE = Berry • SD = Seeds • PL = Plant r addditional information, e.g to differentiate p	shotos of the same category			
• Quick search						
Advanced search	File name *	Durchsuchen	£			
 Characterisation data 						
 SSR-marker data 						
 Vitis sylvestris populations 	Title					
Photo search Virus data	Accession number *		•			
MCRD data import	Part of the plant *		-			
SSR-marker data import SSR-marker data import	Date/year of photo *	YYYY-MM-DD or YYYY				
Sylvestris populations import	Origin of the photo	DEU098		୍ର ପ୍ର	6	
Photo import					to a de de de state	
Virus data import				Size:	Bute	
Confidentiality agreement				Width:	Pixel	
sa				Height:	Pixel	
Login successful	Fields with * are required.					
DEU098 Logout						
	Submit Reset	test				

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.

European Cooperative Programme for Plant	Partner specific access	I Upload of photos				
ECP/GR	Remarks for uploading	photos equired format (accenumb_accename	e_category[_additional te	ext].jpg) are automatically	detected by programm:	
Users handbook 📩 SQL table scheme 🖃 All partner access Partner specific access Online working	categories: (use the abbr ST = Shoot tip ML = Mature leaf HL = Herbarized lea FL = Flower additional text: optional	reviation for the part of the plant)	rentiate photos of the same categ	ory.		
Quick search Advanced search Characterisation data SSR-marker data Vitic envelopment	File name *	H\ECPGR Vitis Working Group	F Durchsuchen.	- Ar		
Photo search Virus data	Title					
MCPD data import	Accession number *	DEU098-2002-002	<u> </u>	my 1		
 SSR-marker data import Characterisation data import 	Part of the plant *	Mature leaf	_		Contraction of the second	
Sylvestris populations import	Date/year of photo *	2008-06-25				
Virus data import	Origin of the photo	DEU098		6	۹ ن	
Confidentiality agreement				Informations a	bout uploaded photo:	
Login successful End DEU098 Logout	Fields with * are required.			Size: Width: Height:	1.644.248 Byte 3.072 Pixel 2.048 Pixel	
	Submit Reset	(

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	Х	Х		Х
Characterisation data	Х			Х
SSR-marker data	Х			Х
Virus data	Х			Х
Photos	Х			Х
On-farm evaluation			Х	Х
<i>Vitis sylvestris</i> inventory and description	Х			Х

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.

Cooperative Programme for Plant	The European Vitis Database
ECP/GR	Confidentiality
	Confidentiality Agreement for the participant
Users handbook 🗾 📩	
SQL table scheme 🛛 🐱	Bathor number
All partner access	Partier number.
Partner specific access	Legal Name:
Online working	
Quick search	
Auvanceu search Characterisation data	
SSR-marker data	
 Vitis sylvestris populations 	Definition of the parties concerned::
 Photo search 	Database Manager: administrates the data of the partners
Virus data	Data Owner: produces and supplies the data
 MCPD data import 	User: partners of GrapeGenO6 using other owners data
SSR-marker data import	
Characterisation data import	
Photo import	
Virus data import	1. The database structure and software is property of the Database Managers of the Julius Kühn
Confidentiality agreement	Institut (Zentrale Datenverarbeitung Quedlinburg and Institut für Rebenzüchtung Geilweilerhof)
57	and constitute confidential information that the User is not allowed to copy for his own
Login successful ww	advantage, or to disclose to others, unless written agreement is given by Julius Kühn Institut.
DEU098 Logout	2. Data are made available to the GraneGenO6 nartners 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 neopling printide GraneGeen06
	2. Data reprint property (convertable of the Data Owner, who evolutively decides how they can be
	5. 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.

Cooperative Programme	Public access Varieties registered in Europe
for Plant Genetic Resources ECP/GR	European Catalogue of Nationally Registered Varieties
Users handbook 🛛 📩	Grapevine European Catalogue: Towards a Comprehensive List Lacombe T et al., Vitis 50 (2), 65-68 (2011)
SQL table scheme 🗾	Annexes :
Public access	
Descriptors/file formats	Annex 1A: list of the grape varieties registered in the Member States
Institute codes	of EU, and the official names of registration in each country
Important links	Appex 1B: same list for EU members and third countries partner in
Contact	GrapeGen06 program.
Disclaimer	Annex 2A: index of the official names of grape varieties registered in
Varieties registered in Europe	the Member States of EU, and their common "prime name" according to <u>VIVC</u> .
Home page	 Annex 2B: same index for EU members and third countries partners of GrapeGen06 program.
Login [Case sensitive!]	 Annex 3A: official national catalogues of grape varieties for each Member State of the EU.
Diser name: Password:	 Annex 3B: same official national catalogues of grape varieties for EU members and third countries partners of GrapeGen06 program.
Login	

Figure 57: Using the list fields specific search options were created. For example the variety number of the *Vitis* Internatinal 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".

sclaimer	In addition to the annexes	s of the publication above (2011), the National Calalogues
rieties registered in Europe	are continuously updated. information provided by the	. The search tool below allows to find the updated he GrapeGen06 partners.
Home page	Convels data	••••••••••••••••••••••••••••••
gin [Case sensitive!]	Search data	
er me: ssword:	Note: use the list fields to s Use % as wildcard at the be beginnings.	elect the search criterias. eginning of a keyword for searching for the word with multiple
Login	VIVC variety number	9275
	National variety name	
	National variety id	
	National synonyms	
	National species	•
	National color of berry ski	n 💌
	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".

Cooperative Programme	First Last	E							
ECP/GR	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	PINOT GRIS
Users handbook 🔣 SOL table scheme	Pino Gri / Pinot gris	GRIS	BGR099	7777 777	vinifera	WINE GRAPE	2009	yes	PINOT GRIS
Public access	Pinot Grigio	NOIR	MLT43	Pinot gris			2000	yes	PINOT GRIS
Quick search Advanced search Photo search	Pinot grigio G.	GRIS	ITA194	Grauer Burgunder / Grauburgunder / RULANDER* / PINOT GRIS** / PINOT***	vinifera	WINE GRAPE	2010	yes	PINOT GRIS
 Characterisation data SSR-marker data 	Pinot gris	GRIS	CH85	Grauburgunder / Pinot grigio / Malvoisie / Ruländer	vinifera	WINE GRAPE	2007	no	PINOT GRIS
Virus data Catalogue of variation	Pinot Gris	GRIS	ESP164		vinifera	WINE GRAPE	2009	yes	PINOT GRIS
On farm maintenance	Pinot gris	GRIS	ROM82		vinifera	WINE GRAPE	2009	yes	PINOT GRIS
Descriptors/file formats Institute codes	Pinot Gris	ROUGE	PRT325		vinifera	WINE GRAPE	2010	yes	PINOT GRIS
Important links	Pinot gris	NOIR	MDA65		vinifera	WINE GRAPE	2009	no	PINOT GRIS
Disclaimer	Pinot gris G	GRIS	BEL23				2000	yes	PINOT GRIS
Varieties registered in Europe	Pinot gris G	GRIS	FRA231		vinifera	WINE GRAPE	2010	yes	PINOT GRIS
Home page	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
	Szürkebarát	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.

European Cooperative	Public access Varieties reg	jistered in Europe					
for Plant Genetic Resources	Back to search form Previous page						
ECP/GR							
	VIVC prime name	PINOT GRIS					
	VIVC color of berry skin	GRIS					
Users handbook 🛛 📩	VIVC variety number	9275					
SQL table scheme 🗾	VIVC species	VITIS VINIFERA LINNÉ SUBSP. VINIFERA					
Public access	VIVC sex of flowers	HERMAPHRODITE					
Descriptors/file formats	VIVC utilization	WINE-GRAPE					
Institute codes	Registered in EU	VAS					
Important links	Remarks modification VIVC	,05					
Contact	National variaty name registered	Dipot aria					
Disclaimer	National variety id						
Variation registered in Europe	National variety id						
varieties registered in Europe	National synonym registered	Grauburgunder / Pinot grigio / Malvoisie / Rulander					
Home page	Species country	vinifera					
	Color of berry skin country	G					
Login [Case sensitive!]	Utilization country	WINE GRAPE					
User	Country of registration (code)	SWITZERLAND (CHE)					
name:	EU member	no					
Password:	Catalogue year of update	2007					
Login							

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.



EUROPEAN COMMISSION Council Regulation (EC) N°870/2004 establishing a Community programme on genetic resources in agriculture

AGRI GEN RES 2006 DECLARATION FORM CONFIDENTIALITY AGREEMENT

Proposal acronym:	GrapeGen06
Project Duration:	January 2007- December 2010

Confidentiality Agreement for the participant

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.

7 Annex 2: Figures 1 – 42

Figure 1:	Search result for accessions with country of origin of the variety = Bulgaria	3
Figure 2:	Search for accessions with an accession name starting with Alfred Live?	4
Figure 3:	Search result for accession names beginning with Alfrocheiro	4
Figure 4:	MCPD data of the accession "Alfrocheiro preto"	4 5
Figure 5:	Photo gallery of the accession "Alfrocheiro preto"	J
Figure 6:	Characterisation data of the accession "Alfrocheiro preto"	3
Figure /:	Search for accessions with specific characteristics, e.g. $OIV \ 001 = 5$	6
Figure 8:	233 accessions are matching the entered notation values.	/
Figure 9:	Characterisation data of the accession "Aubun"	/
Figure 10:	Of 1181 accessions photos from bunches are available	8
Figure 11:	Bunch of the accession "Admirable de Courtiller"	8
Figure 12:	accessions have been described twice. Access to ampelographic data and photos is	
	described in figures 4-6 and 8.	9
Figure 13:	To register for SSR-marker data admission read carefully the specifications below	10
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	10
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	11
Figure 16:	The coded SSR-marker data of the accession Heunisch weiss, described by ESP080	11
Figure 17:	A click on the question mark the allelic ladder of markers are displayed	11
Figure 18:	To search by allele length edit the coded values, e.g. for VVS2 "n+20" and "n+22"	12
Figure 19:	166 accessions have been found with allele sizes "n+20" and "n+22" at VVS2 locus	12
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	12
Figure 21.	Two options exist: either you select "A" to obtain all accessions for which virus status	12
115010 211	has been determined or you carry out a preselection by list fields, using "B" Specific	12
Figure 22.	By choosing option " Λ " the total of analysed accessions turned out to be 466	15
Figure 22.	(February 2012)	13
Figure 23:	With respect to country of origin of the variety "Spain". 487 accessions have been	
U	described. For the generation of a pdf document the accession "Forcallat", described by	
	ESP080 has been chosen.	14
Figure 24:	If several photos of one category exist, the most appropriate can be chosen	15
Figure 25:	The finalized pdf document of "Forcallat" can be downloaded	16
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	17
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 st column.	17
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"	18
Figure 29:	All information encompassing the on-farm description/evaluation of neglected cultivars	18
Figure 30:	Institute codes occurring in the MCPD data as holding institutions, donors, breeders,	
	collecting institutes or duplicate holders	21
Figure 31:	Code ARM011 and respective complete contact data.	21
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	23
Figure 33:	Objective: search for and export of the characterization data of all described accessions	24
Figure 34:	Search result: 2748 accessions. Export file of the characterization data is created by	_
	clicking on the corresponding button.	24
Figure 35:	Excel file encompassing the characterization data of 2748 accessions	25

Figure 36:	Search for the information gathered by description/evaluation of minor varieties maintained on-farm.	25
Figure 37:	Data can be downloaded section-wise.	25
Figure 38:	A listing of the <i>Vitis sylvestris</i> populations studied is to be obtained by ticking the case of option A. Specific search offers option B.	26
Figure 39:	Clicking on the population identifier leads to the description of the <i>Vitis sylvestris</i> population site, see figure 40.	26
Figure 40:	Description of the Vitis sylvestris population site.	27
Figure 41:	A listing of the <i>Vitis sylvestris</i> plants studied is to be obtained by ticking the case of option A. Specific search offers option B.	27
Figure 42:	Listing of the Vitis sylvestris plants studied.	28
Figure 43:	Description of individual plants is to be obtained via "photos", "characterization data," and "SSR-marker-data"	28
Figure 44:	The back button of the browsers can not be deactivated. During data import this button needn't to be touched.	30
Figure 45:	Search of the MCPD data excel file in your directory. Click on upload	30
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	31
Figure 47:	If all columns are correctly assigned, the user has to click on the first data row in his table	31
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.	32
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"	32
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	22
E	accession respectively check your import file.	33
Figure 51:	With respect to MCPD data modifications can be carried out via "Edit record". Single	
	data records can be deleted as well.	. 33
Figure 52:	On-line data set processing: The first MCPDs and the <i>Vitis</i> specific criteria are to be	
C	found below.	34
Figure 53:	Photo import module: search the photo file in your directory	35
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	
T	clicking on submit the photo is saved in the database	35
Figure 55:	Access to the confidentiality agreement. The document can be downloaded. For the full	26
Figure 56.	Article published by Lacombe et al. 2011 and six apprecess sorting the grapevarieties	36
riguie 50.	registered in Europe according to different criteria	37
Figure 57:	Using the list fields specific search options were created. For example the variety number	
U	of the Vitis Internatinal 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"	38
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	
E	"National variety names"	38
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	20
	the vive and the corresponding reactional Catalogue is showin	59