

Conservation and sustainable use of
Grapevine (*Vitis vinifera*) genetic resources
in the Caucasus and Black Sea Region –
activities in the Republic of Moldova

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*Fifth project meeting, 15-17 October 2007
Krasnodar, Russian Federation*

Project activities:

1. Development of project's database – inventory of varieties
2. Identification, Mobilization and Conservation
3. Documentation and characterization
4. Exploration of wild grapevine resources

1. Development of project's database – inventory of varieties

1.1. Inventory and reevaluation of vegetative status of project's grapevine genetic resources in Chisinau collection –

- Monitoring, evaluation of 41 old autochthonous and 15 new created varieties and forms
- Inventory of 325 varieties of the project's partners

1.2. Inventory and evaluation of vegetative status of local grapevine genetic resources in new identified collection (near Chisinau)

- Inventory - 16 varieties



1.3. Improvement and development of Information System for Grapevine genetic resources

General description:

- Information system developed in base of Visual FoxPro v.7 Data Management System
- Functionality:
 - Data input
 - Review of data
 - Queries and reports
- Current improvement and development:
 - Transfer to Visual FoxPro v.9 Data Management System (in order to ensure using of national diacritical characters)
 - New information included: evolution of vegetative status of plant (results of inventory), references database
- Future improvement and development
 - Transfer to Access Data Management System (soft licence problems)
 - New functionality: data security, network functionalities, processing of images, Internet interaction

Main Menu:



Options:

- | Varieties description
- | Experimental plots
- | Particular studies
- | Setup
- | Help

Varieties description:

Informatii despre soi

Cautare (cod sau nume)

Cod	Numele soiului
0011	AKKERMANSKII CIORNII
1748	AKLIK JEOLTII
0410	AKSEIT KARA
5827	AL-IZIUM
2079	ALA SAANI
1345	ALADASTURI
5740	ALANI HAGAH
2275	ALB DE IALOVENI
2276	ALBALONGA
2277	ALBANA
2278	ALBANIA
2279	ALBENC
2280	ALBIGNAC
1376	ALBILIO KRIMSKII
4723	ALBILLO
2281	ALBOURLA
0303	ALDEN
1440	ALDORA BELII (SPITAK)
0268	ALEATICO

Search by:

- ▮ Variety code, or
- ▮ Variety name

Options:

- ▮ Passport data
- ▮ Ampelographical data
- ▮ Ampelometrical data
- ▮ Annual studies

Passport data (view):

Pasaportul soiului AKKERMANSKII CIORNII

Codul soiului: **0011**

Numele soiului: Akkermanskii ciornii
Akkermanskii chernyj
Акерманский черный

Cultivar's name: Имя сорта

Sinonime (synonyms, синонимы):
cnumesoi
Demerdjisia
Gordin Ceornii
Ciainac Ceornii
Covali
Covaliok
Demerdjisia
Gordin Ceornii

Originea soiului:

Genul:
Specia:
Mama: 0000
Tata: 0000
Tara: ROM ROMANIA
Institutie: 0
Anul crearii:
Sexul florii: 3 Hermafrodit functional normala
Culoarea bobului: 6 Albastru-negru
Utilizarea: 2 Struguri pentru vin
Prezenta semintelor: 2 Prezente (seminte deplin dezvoltate)
Precocitatea: 5 Mijlocie

	Numar de livrare	Codul soiului	Nr. sector	Nr. cartier	Nr. rand	Nr. butucilor	Adresa	Anul sadirii
MDA004	0001	0011	0	0	0			
MDA004	0012	0011	1	1	12	1-10	I-12(1-10)	
MDA004	0152	0011	1	3	13	1-20	III-13(1-20)	

Corectare Iesire

Variety name
(national original
name, transliteration,
Russian)

Synonyms

Biological
classification,
Parentage

Country of origin,
institution, year of
creation

Short description

Addresses in
collection, other
plots

Ampelographical data

Caractere ampelografie AKKERMANSKII CIORNII

Compartimentul - FRUNZA MATURA				Descriptorul	Expresia caracter.	Gradatia
O.I.V.	UPOV	IPGRI				
065	30	4.1.6	Marimea		7/	Mare
066		6.1.19	Lungimea		/	
067	31	6.1.20	Forma limbului		4/	Rotunda
068	32	4.1.7	Numarul lobilor		1/	Nelobata (frunza intreaga)
069	33	6.1.21	Culoarea pe fata superioara a limbului		5/7	Verde
070	46	6.1.22	Colorarea cu antociani a nervurilor princip		/	
071	47	6.1.23	Colorarea cu antociani a nervurilor princip		/	
072	36	6.1.24	Gofrarea limbului		0/1	Absenta
073	37	6.1.25	Ondularea limbului intre nervurile princip		/	
074	34	6.1.26	Profilul limbului		1/	Drept
075	35	6.1.27	Umflaturi (basici) pe suprafata superioar		/	
076	40	4.1.8	Forma dintilor		2/	Cu ambele margini drepte
077	38	6.1.28	Lungimea dintilor		5/	Mijlocii
078	39	6.1.29	Lungimea dintilor in functie de latimea ba		/	
079	41	4.1.9	Forma generala a sinusului petiolar		3/	Deschis (lira)
080	42	6.1.30	Forma bazei sinusului petiolar		1/2	In forma de U
081	43	6.1.31	Particularitati ale sinusului petiolar		/	
082	44	6.1.32	Forma sinusurilor laterale superioare		3/	Lobi usor suprapusi
083	45	6.1.3	Forma bazei sinusurilor laterale superioa		1/	Forma de U

lesire

Annual studies

Studii anuale - soiul AKKERMANSKII CIORNII

Codul soiului: 0011

Numele soiului: Akkermanskii ciornii

Locul de studiu	Dezmurgitul	Infloritul	Maturarea	Data recoltarii	Sursa de lit.
0002	..	..	..	..	0000
0002	02.05.62	11.06.62	04.08.62	..	0000
0002	05.05.63	13.06.63	08.08.63	..	0000
0002	10.05.64	18.06.64	25.08.64	22.10.64	0000
0002	11.05.65	24.06.65	24.08.65	25.10.65	0000
0002	24.04.66	14.06.66	15.08.66	21.09.66	0000
0002	26.04.67	19.06.67	13.08.67	15.10.67	0000
0002	19.04.68	03.06.68	07.08.68	30.09.68	0000
0002	05.05.84	21.06.84	30.08.84	..	0000
0002	04.05.85	13.06.85	21.08.85	..	0000
0002	..	..	..	14.10.77	0000

2. Identification, Mobilization and Conservation

2.1 Identification of local varieties in Chisinau collection:

- It was establish mismatch for variety registered as Seina
- It was establish identity of varieties presented by grafted plants and scion-rooted plants (cca. 90 accessories)
- It was establish identity of varieties registered on more than address (the same or differing name (synonym)):
 - Babeasca neagra ↔ Serectia ↔ Rara neagra ↔ Rastriopa
 - Galbena de Ardeal ↔ Feteasca regala
 - Galbena de Odobesti ↔ Galbena
- Identification in foreign collections – difficulties with visa perfection (possible solution – invitation of foreign specialist to Chisinau collection)

2.2. Identification of new sources for introduction:

- It was identified sources (contact address) and partially obtained list for new sources of introduction of old autochthonous variety and new variety created on their basis:
 - SCDVV Blaj
 - SCDVV Iasi
 - SCDVV Valea Calugareasca
 - SCDVV Odobesti
 - SCDVVMurfatlar
 - SCDVV Dragasani
 - SCDVV Minis
 - SCDVV Pietroasele
 - SCDVV Stefanesti
 - SCDVV Bujoru
- Many sources of introduction in foreign collections also was affected by unfavorable climatic conditions;
- Biological material for 4 local varieties was transferred to Stefanesti Institute for Biotechnology in Horticulture for virus testing, cleaning and multiplication

Propagation and preservation *on farm*

- Monitoring of varieties in 3 sites
- Contact with new person for conservation – one site

2.3. Management and care of Chisinau collection :

- | It was effectuated all agrotechnical operation according technological scheme
- | Attention was focused to varieties presented by 1-2 plants



2.3. Specification of strategy for foundation of new collection

- | Principal destination – conservation of grapevine genetic resources
- | Total number of accessories – cca. 1500
- | Creation of new collection in basis of virus-free biological material
- | Creation of duplicate in 2-3 site
- | For special studies, estimation – creation of core collection (plots)

3. Documentation and characterization

Description, specification of information of local varieties for publication in the book of ampelography of the region:

- | | |
|-------------------|-----------------------|
| • Babeasca neagra | Galbena de Ardeal |
| • Cabasma | Galbena de Odobesti |
| • Ciorcuta roza | Gordin |
| • Coarna alba | Gordin gurguiat |
| • Coarna neagra | Gordin verde |
| • Coarna rosie | Sghigarda |
| • Copceac | Tata caprei |
| • Feteasca neagra | Turba plotnaia belaia |
| • Galabura | Turba rihlaia belaia |

Preparation of DNA library for local varieties, DNA analysis

It was collected biological material, extracted DNA, effectuated PCR-analysis for new local cultivars:

- Kish-mish lucistyi
- Apiren alb
- Apiren roz
- Apiren roz extratimpuriu
- Apiren basarabean
- I-15-15

Completion of digital photo database for local varieties

Coarna neagra







4. Evaluation and management *ex situ* of wild grapevine resources

- Monitoring of newly obtained plants (populations) in greenhouse
- Estimation, description of presented in Collection introduced wild grapevine (from Kopet-Dag, Turkmenistan)

DK-2



DK-7



DK-9



DK12



DK-14



DK-16



DK-20



Thanks for your attention!