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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Project activities:

- 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

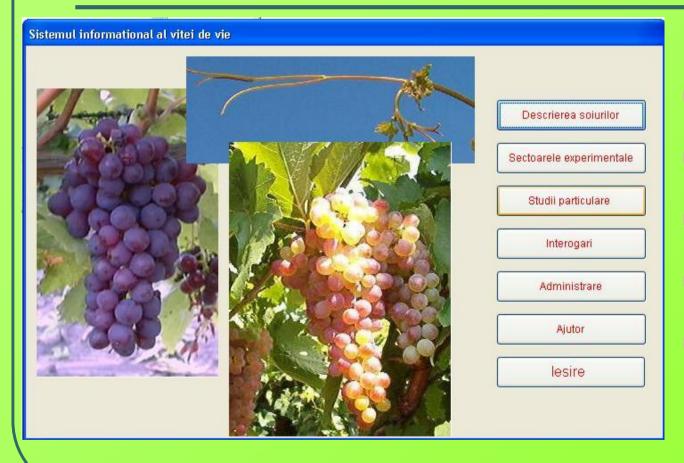


1.3. Improvement and development of Information System for Grapevine genetic resources

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

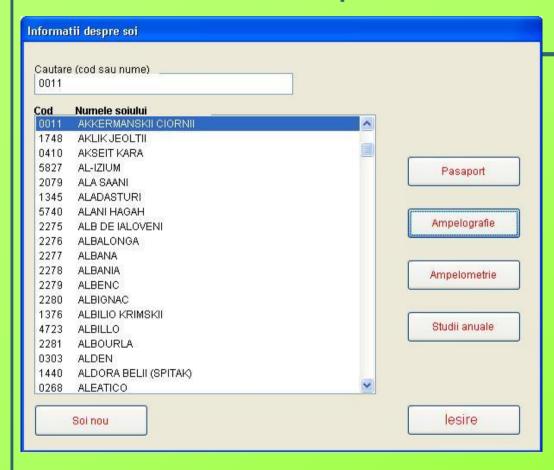
Main Menu:



Options:

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

Varieties description:



Search by:

Variety code, or

Variety name

Options:

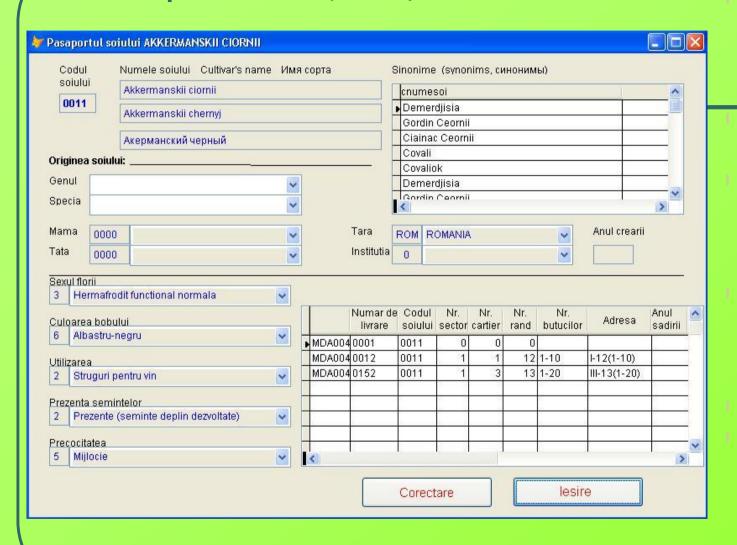
Passport data

Ampelographical data

Ampelometrical data

Annual studies

Passport data (view):



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

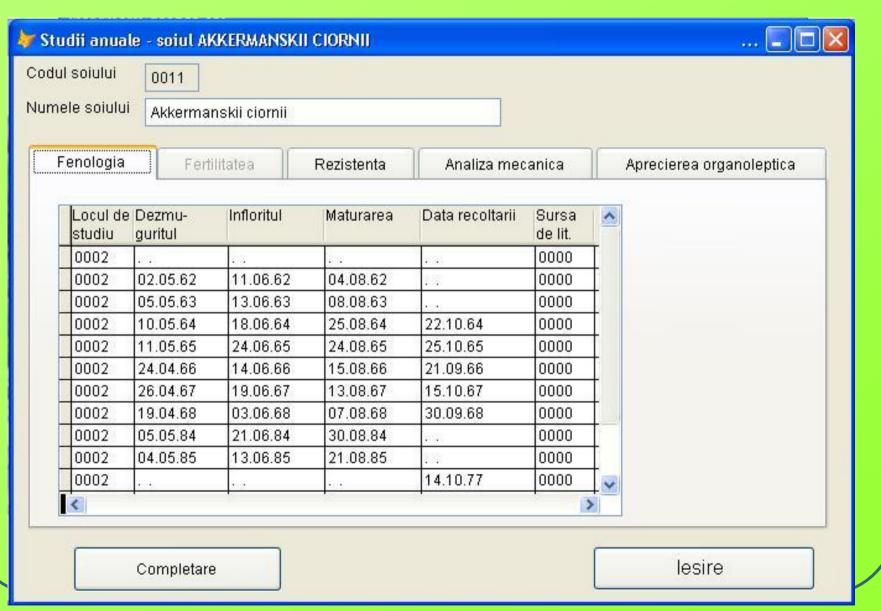
Caractere ampelografie AKKERMANSKII CIORNII

	Compartimentul	^			
	Rozeta				
Ī	Lastarul				
	Carceii				
	Frunza tanara				
Þ	Frunza matura				
	Coarda				
	Floarea				
	Inflorescenta				
	Strugurele				
	Bobul				
	Samanta				
	Insusiri tehnologice				
	Caractere agrobiologice				
	Copili				
	Rezistenta la fact. defav	V			
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lesire

partin O.I.V.	nentul - UPOV	FRUNZ IPGRI	ZA MATURA Descriptorul	Expresia caracter	Over dietie
065	30	4.1.6	Marimea	71	Mare
066		6.1.19	Lungimea	1	9).
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 princi	1	S
071	47	6.1.23	Colorarea cu antociani a nervurilor princi	- /	60 100
072	36	6.1.24	Gofrarea limbului	0/1	Absenta
073	37	6.1.25	Ondularea limbului intre nervurile princip	1	
074	34	6.1.26	Profilul limbului	1/	Drept
075	35	6.1.27	Umflaturi (basici) pe suprafata superioa	1	67 68 88
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	1	
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	I	
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

Annual studies



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 Dragasani

SCDVV Iasi SCDVV Minis

SCDVV Valea Calugareasca SCDVV Pietroasele

SCDVV Odobesti SCDVV Stefanesti

SCDVVMurfatlar 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
- Cabasma
- Ciorcuta roza
- Coarna alba
- Coarna neagra
- Coarna rosie
- Copceac
- Feteasca neagra
- Galabura

Galbena de Ardeal

Galbena de Odobesti

Gordin

Gordin gurguiat

Gordin verde

Sghigarda

Tata caprei

Turba plotnaia belaia

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

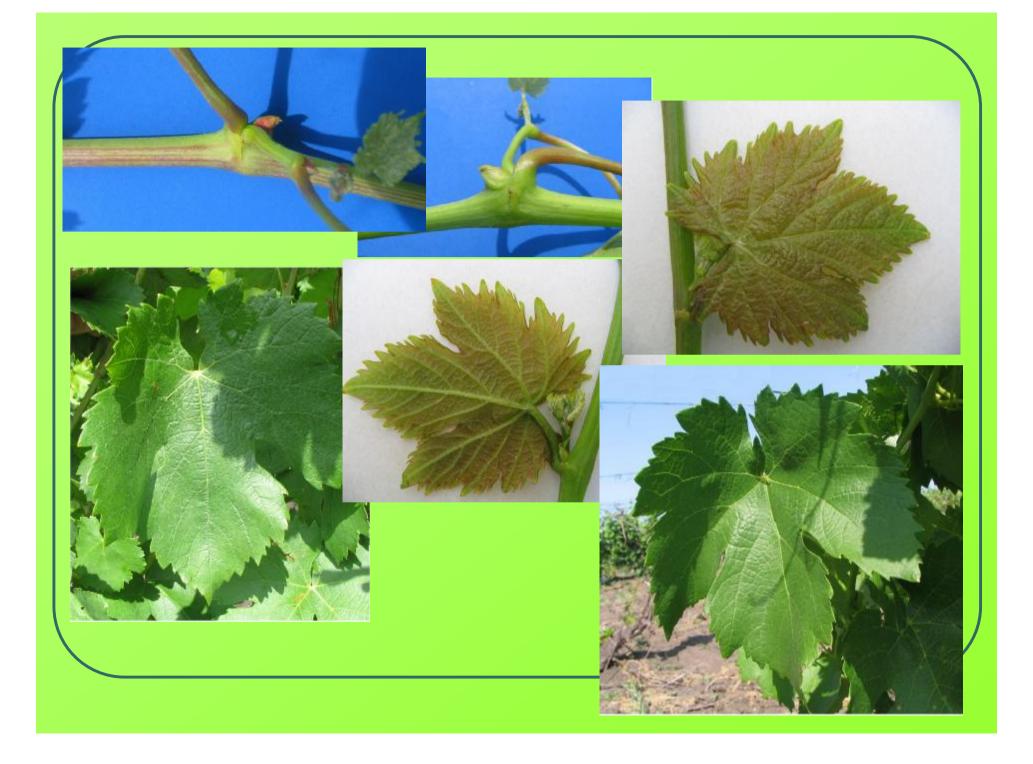
Completion of digital photo database for local varieties

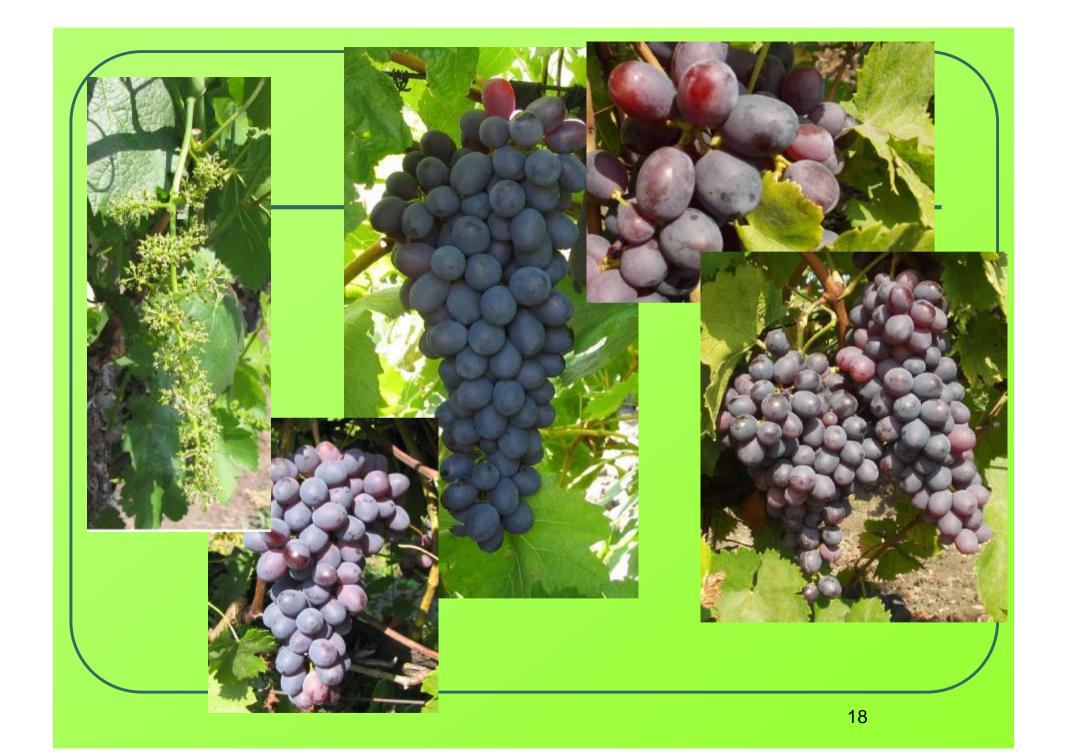
Coarna neagra











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)

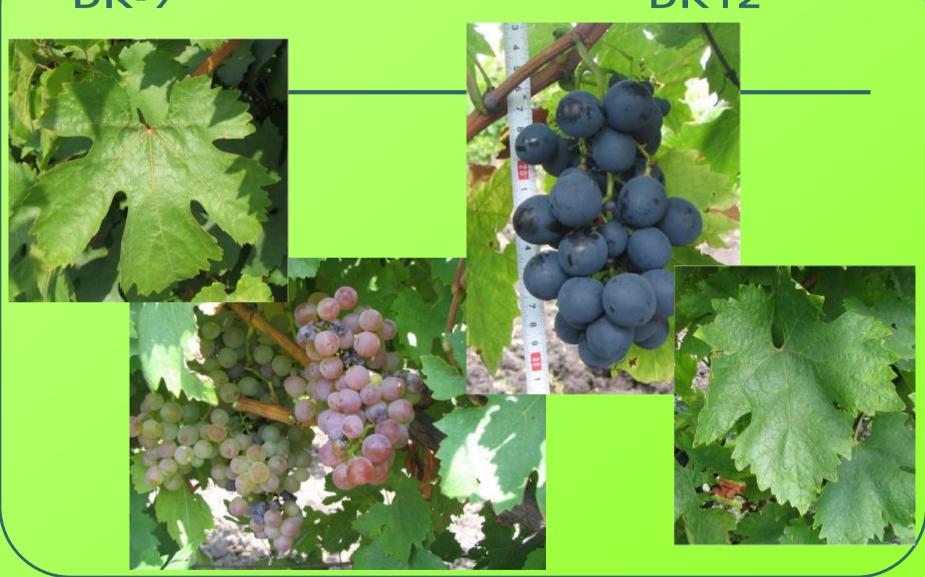


DK-7





DK-9 DK12



DK-14

DK-16







