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National PGRFA Inventory of Serbia

Ministry of Agriculture and Environmental protection Directorate for National Reference Laboratories Plant Gene Bank

Milena Savic Ivanov

EURISCO meeting Tirana, Albania 19-21 may 2015





Current situation

- National Gene Bank activated in 2015
- Institutes and universities are main collection-holders (over 20.000 acc)
- National legislation is under preparation
- Subsidies for PGR conservation and sustainable use under the Ministry for Agriculture and Environmental Protection (Law on subsidies in Agriculture and Rural Development)



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PGR status

- Genetic erosion of PGRFA is evident, due to:
 - Monocropping (maize, wheat)
 - Domination of foreign varieties and hybrids
 - Globalization of agriculture and market
- National collection is temporary stored at +4C



- Accessions in National collection are in urgent need for regeneration and multiplication after 15 years
- Facilities for Gene bank provided: mid term +4C and long term -20C
- Equipment purchased
- Incomplete Inventory, documentation, characterization and evaluation
- National Gene bank is a part of National Complex of Reference Laboratories – Ministry of Agriculture and Environmental Protection



International Legal Framework

- Serbia has ratified a number of international conventions that related to PGR
- As a candidate for EU member state, follows the EU legislation on PGR,
- In the phase of harmonization with EU PGR directives
- CBD ratified (2001)
- ITPGRFA signed (2001), ratified (2013)
- Nagoya Protocol signed (2011)



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National Legal Framework

- New Strategy for Agriculture and Rural Development adopted in 2014
- National Programme for conservation and Sustainable Use of PGRFA in Serbia has been prepared with the support of FAO TCP Project (ready for adoption by the Government in 2015)
- Draft Law on PGRFA Management prepared, (to be adopted by the Parliament until the end of 2015)
- National PGRFA Committee established



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Plant Gene Bank

- Gene Bank equipment purchased with a help of two international projects:
- SEEDNET (South East European Development Network for Plant Genetic Resources)
- FAO TCP ("Support to the National PGRFA Programme")





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National PGRFA Collection

- Transferred to the National Plant Gene Bank - April 2015
- Mid-term conservation on +4C
- Facilities for lon –term on -20C in place
- 4238 accessions from 249 species:
- Cereals 2983 acc. (7 species)
- Industrial Crops 367 acc. (6 species)
- Vegetables 214 acc. (11 species)
- Fodder Crops 285 acc. (9 species)
- Medicinal and Aromatic Plants 389 acc. (216 species)





Institutions collection-holders

Responsible for: ex-situ and in-situ conservation, regeneration, multiplication, Inventory, documentation

- Institute for field crops and vegetables, Novi Sad (cereals, maize, vegetables, industrial plants, fodder crops, MAP) 0
- Maize research institute Zemun Polie, (maize, sorghum) 0
- Institute for vine production and vificulture Niš 0
- Institute for fruits production Čačak 0
- Instituter for fodder crops Kruševac 0
- Institute for vegetable crops, Smederevska Palanka 0
- Faculty of Agriculture, Belgrade (fruits and vitis) 0
- Faculty of Agriculture, Novi Sad (fruit and vitis) 0
- Faculty of Agriculture, Kragujevac, Čačak 0
- Institute for medicinal plants research, Beoarad 0
- Institute for small grain cereals, Kragujevac 0
- Institute for biological research, Belgrade (in vitro collections) 0
- Center for agriculture and technological research Zaječar (cereals, maize, fodder crops, industrial crops) 0
- Center for potato research, Guča (duplicates from National collection) 0
- Center for Sugar Beet, Aleksinac 0
- Center for Tobbaco, Niš 0
- Ministry for Agriculture and Environmental Protection-Plant Gene Bank 0





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Maize Gene Bank Institute for Maize Zemun Polje

- o 2,238 local varieties
- 1081 introduced varieties
- 23 introduced composites
- 237 introduced synthetics
- 2,287 introduced and domestic inbred lines
- Total 5866 accessions

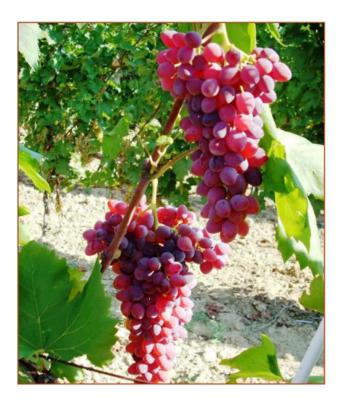




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Fruit and Vitis collections

- Institute for Fruit Production Čačak (1223 genotypes)
- Faculty of Agriculture Beograd Radmilovac (425 landraces of fruits and 550 Vitis genotypes)
- Faculty of Agriculture Novi Sad Rimski Šančevi (1250 genotypes of fruits)
- Faculty of Agriculture Novi Sad -Sremski Karlovci (210 Vitis genotypes)
- Center for Vine production and Viticulture Niš (195 Vitis genotypes)





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Wild Sunflower collection Novi Sad





NATIONAL INVENTORY

- The National Inventory Focal Point is responsible for the compilation of data and management of the National Inventory of PGRFA
- Other data sources are known and data have to be obtained from PGRFA holding institutions (mostly held in books, excel sheets, access)
- Official agreements between National Inventory Focal Point and holding institutions are made
- Contact persons for PGR documentation are recently appointed by each institution
- IPGRI/FAO MCPDL are the basis for the data structure
- Mode and period of sending data is to be agreed
- New data have to be compiled and transferred in relevant structure, step by step
- The National Inventory will cover important national ex situ collections and working collections
- Information and documentation unit in the Gene Bank needs:
- Server
- Data base management software
- IT person



Documentation

Documentation in the Maize Gene Bank is made as a set of information about each genotype.

Germplasm characterization in Maize Gene Bank is made on basis of minimum MCPDL descriptors (IPGRI/FAO), based on botanical characterization of populations (Anderson and Cutter) and also on breeder's needs.

casion Number	Denermane	Arquistion date	Huber of	Phete	
1	Marsenić Maksim	10 Decentor 1982	regenerations		
1	Petrović Vlado	10 December 1962	1		
24	Pancevic Danjan	10 December 1962	1		
	Parceve Dargan	10 December 1962	1		
	Ctradovit Savo	10 December 1962	1		
	Circoleve	10 December 1962	,	1	1/
7	Batović Padoje	10 December 1942	7		
16		10 January 1963	1	1	
1811	Hamalet Janes	28 March 1977	2		
			The survey of the local division of the loca		



EURISCO

- All accessions from National Gene Bank Collection are already sent to EURISCO (near to 5000 entries)
- EURISCO National Focal Point from 2009
- EURISCO Data Sharing Agreement is sent in procedure for signature



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ECDB Maize

- Serbia is the holder of European Crop Data Base for Maize
- Responsible person: Data Base Manager

Dr Violeta Andjelkovic, Head of Maize Gene Bank Institute for Maize "Zemun Polje"- Belgrade



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THANK YOU!

