TABLE GRAPE VARIETIES CULTURE TO NRDIBH STEFANESTI, OVER TIME

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Abstract

At NRDIBH Stefanesti-Arges, in the past decades extensive work has been done to improve the grape-vine, which yielded some remarkable results. The first concerns the improvement of grape-vines to NRDIBH Stefanesti-Arges (then SCPVV Stefanesti) were initiated by the breeder engineer Baditescu Margareta, improvement in the Laboratory in 1982, was its founder, who has dedicated so much to obtain new varieties by crossing sexual and clonal selection to. Improvement work was continued by researchers: Smaranda Julia, Smaranda George, Camelia Popa. After lengthy activity at SCDVV Stefanesti were obtained clones new to old varieties of wine, but also at the table. Thus, clonal selections have been approved for 13 red and white wines. For table varieties were approved Argessis and Golden Stefanesti varieties and clones Stefanesti, Muscat Adda 22 and Perlette 10. Varieties approved quality characteristics that allow for superior wines, varieties of wine for the table and the quality of the grapes is good looks for Romania to meet the demands of markets in developed countries. Spread production of new varieties of table grapes, can effectively contribute to the recovery in activity in wine country by increasing efficiency and profitability.

Keywords: table grapes, individual consumption, amelioration

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In the period 1960-1982 were set up and operated laboratories Agronomic wine, wine biology, fruit growing agricultural technology, plant protection, planting material production and fruit growing, wine etc. Since 1980 the unit has passed under the ASAS "Gh SISESTI Ionescu" - Bucharest, in 2002 was named SCDVV Stefanesti-Arges and December 2004 by Government in 2113 called the National Institute for Biotechnology in Horticulture Stefanesti-Arges (INCDBH).

Currently the unit is structured as follows:

► Research department including:

- Field test;
- Specialized groups:
 - Genetics and Horticultural Plant Breeding;
 - Biochemistry and physiology of plants;
 - Agrotechnology;
 - Plant Protection;
 - Biotechnology applied;
 - Support activities
 - Virology laboratory (accredited ISO17025)
 - Wine chemistry laboratory (accredited ISO17025)
 - Laboratory for detection, identification and quantification of GMO (ISO17025 accredited);
- ► Economic and administrative department;
- ► Development Department:
 - Pilot stations:
 - Goleasca-Văleni;
 - Călinesti;
 - Topoloveni-Pietroasa;
 - Complex wine;

- Production, processing and marketing of seed potatoes (by Annex no. 1 MARD Order no. 206 of 07.10.2011)

In Romania, wine assortment is constantly filled with new varieties created. The group table varieties range is quite rich. Among the newly developed varieties and varieties are studied in this paper (Table 1)

Table 1. New varieties of grape vines for table grapes produced in Romania (after Oprea St., Moldovan S.D., 2007 - updated)

-	(after Oprea St., Moldovan S.D., 2007 - updated)				
No	Variety	Genitors	Creator of the variety	Year homologa tion	Authors
1.	Argessis	Moldova x Augusta	INCDBH Ștefănești	2002	Popa Camelia, Bădițescu Margareta
2.	Augusta	Italia x Regina viilor	IANB București	1984	Neagu M., Georgescu M.
3.	Auriu de Ștefănești	Frumoasă albă x Augusta	INCDBH Ștefănești	2007	Popa Camelia, Smaranda Gh., Bădițescu Margareta
4.	Azur	Coarnă neagră x Cardinal	SCVV Drăgășani	1984	Lepădatu Victoria, Condei Gh.
5.	Cetățuia	Crâmpoșie x Frumoasă de Ghioroc	SCH-IA Cluj	1979	Oprea Şt.
6.	Chasselas de Băneasa	Chasselas doré, polenizare liberă	IANB București	1978	Dvornic V.
7.	Coarnă neagră selecționată	Coarnă neagră, polenizare liberă	ICHV București	1969	Constantinescu Gh., Negreanu E.
8.	Gelu	Coarnă neagră, polenizare liberă	SCVV Iași	1999	Calistru Gh., Damian Doina
9.	Greaca	Bicane x Afuz-Ali	SCVV Greaca	1979	Gorodea Gr.
10.	Istrița	Tămâioasă rom. x Maria Pirovano	SCVV Pietroasa	1996	Toma Otilia, Ispas Sofia
11.	Milcov	Coarnă neagră x Muscat de Hamburg	SCVV Odobești	1988	Bădițescu Margareta, Varga N., Zaharia V., Coman Gh.
12.	Muscat timpuriu de București	Coarnă albă x Regina viilor	ICHV București	1969	Constantinescu Gh., Negreanu E.
13.	Napoca	Alphonse Lavallée x (Regina viilor + Muscat de Hamburg)	SCH-IA Cluj	1984	Oprea Şt., Hontilă Şt.
14.	Oltean	Dattier de Saint Vallier x Victoria	Universitat ea din Craiova	2011	Olteanu I. Cichi Daniela, Giugea N., Popa

	1				0 1 0 1
					Camelia, Costea
1.7	D 1	D: 4 1 T :	COMMIT :	1000	D.C.
15.	Paula	Bicane x Aromat de Iași	SCVV Iași	1998	Calistru Gh.,
1.6	D 1v 1	G:1 : D : ::1	CCDIII	2007	Damian Doina
16.	Perlă de	Silvania x Regina viilor	SCDVV	2007	Duma M., Ilie
	Feredeu		Miniş		I., Oană Maria,
					Duma T., Luca
1.7	D ^	D: A.C. A1:	ICYNY	1070	M, Popi C.
17.	Roz românesc	Bicane x Afuz-Ali roz	ICVV	1978	Negreanu
			Valea		Elena, Ioniță
			Călugăreas		Ioana, Popa A.
1.0	C-14	Bicane x Chasselas doré	că IANB	1070	Dvornic V.
18.	Select	Bicane x Chasselas dore		1970	Dvornic v.
10	G:1 ·	D: Cl 1 1 /	BucureȘti	1000	0.1: 4 01
19.	Silvania	Bicane x Chasselas doré	SCVV	1980	Calistru Gh.,
			Miniş		Ciutină S.,
20		N 1 XX . 1	G CYY Y A	1006	Oană Maria
20.	Someşan	Muscat de Hamburg x	SCH-IA	1986	Oprea Şt.,
2.1	0 1 1:1	Regina viilor	Cluj	1004	Olaru B.
21.	Splendid	Black rose x Regina	SCH-IA	1984	Oprea Şt.
		viilor	Cluj		
22.	Tamina	Bicane x Muscat de	SCVV	1985	Gorodea Gr.,
		Hamburg	Greaca		Boian I.,
- 22	m: · 1	A.1.1 Y 117	C CY II I	1000	Lumânare Z.
23.	Timpuriu de	Alphonse Lavallée x	SCVV	1989	Toma Otilia
2.4	Pietroasa	Regina viilor	Pietroasa	1004	0 0
24.	Transilvania	Black rose x Cardinal	SCH-IA	1984	Oprea Şt.
			Cluj	10=0	
25.	Timpuriu de	Crâmpoție x Frumoasă	SCH-IA	1979	Oprea Şt.
	Cluj	de Ghioroc	Cluj		
26.	Victoria	Cardinal x Afuz-Ali	SCVV	1978	Lepădatu
			Drăgășani		Victoria,
					Condei Gh.
27.	Xenia	Bicane x Muscat de	SCVV	1983	Gorodea Gr.
		Hamburg	Greaca		
	1		S VARIETY		
1.	Călina	Braghina x Sultanină	SCVV	1985	Mărculescu M.
			Drăgășani		
2.	Centenar Pietroa		SCVV	1991	Toma Otilia,
		Perlette	Pietroasa		Ispas Sofia
3.	Otilia	Alphonse Lavallée x	SCVV	1987	Toma Otilia
I	1	Perlette	Pietroasa		

In our country with these varieties were approved 11 clones of table grape varieties (Table 2).

Table 2. Clone of table grape varieties produced in Romania (after ISTIS, 2012)

No	Clone name	Year	Unit which has	Authors
		homologa	been selected	
		tion		
1.	Muscat de Hamburg 424 Gr.	1975	SCDVV Greaca	Gorodea G.
2.	Muscat de Hamburg 4 Pt.	1980	SCDVV Pietroasa	Popa Elena,
				Toma Otilia
3.	Afuz-Ali 93 Mf.	1980	SCDVV Murfatlar	Oşlobeanu M.,
				Ionescu A.
4.	Perla de Csaba 115 Gr.	1983	SCDVV Greaca	Gorodea G.,
				Boian I.,
				Lumânare Zamfira
5.	Afuz-Ali 14 Gr.	1984	SCDVV Greaca	Gorodea G.,
				Boian I.,
				Lumânare Zamfira
6.	Italia 25 Gr.	1985	SCDVV Greaca	Gorodea G.,
				Boian I.
7.	Chasselas doré 20I ș .	1987	SCDVV Iași	Calistru Gh.,
				Damian Doina
8.	Muscat de Adda 5Pt.	1995	SCDVV Pietroasa	Ispas Sofia,
				Toma Otilia
9.	Chasselas roz 17 I ș .	1999	SCDVV Ia ș i	Calistru Gh.,
				Damian Doina
10.	Perlette 10 Şt.	2008	INCDBH	Popa Camelia
			Ştefăneşti	
11.	Muscat de Adda 22 Şt.	2009	INCDBH	Popa Camelia,
			Ştefăneşti	Rădulescu Ion

Brief description of varieties obtained from INCDBH Ştefăneşti-Arges: **Golden Ştefăneşti** (figure 1) - variety obtained from INCDBH Stefanesti through sexual hybridization between Nice white x Augusta, approved in 2007, the first variety of white grape vine table with baking early obtained under specific climatic vineyard Ştefăneşti-Arges commercial aspect pleasant, large grain (5.5 -6.8 g), spherical, yellow-gold, sea grapes (400-450 g), wings, good tolerance to fungal diseases (blight, mildew, rot) grapes ripening in the first period (28.07-05.08); suitable for organic crops (Cichi Daniela et al, 2010).



Figure 1. Variety Auriu de Stefanesti



Figure 2. Variety Argessis

Argessis (figure 2)- variety obtained from I.N.C.D.B.H. Stefanesti through sexual hybridization between Moldova x Augusta, approved in 2002, the first kind of vine grapes obtained in specific

climatic conditions vineyard Ştefăneşti-Arges commercial aspect pleasant, large grain (7.5 to 8.0 g) ovoid, dark blue-black sea grape (450-480 g), uniaxial, good tolerance to fungal diseases (blight, mildew, rot); hub great force, suitable for crop canopy (Camelia Popa et al., 2005).







Figure 4. Variety Perlette 10 St.

Muscat Adda 22 St. (figure 3) - was obtained by clonal selection Muscat d'Adda in INCDBH Ştefăneşti and approved in 2009; variety for fresh consumption, leaf color is green grapes are medium size to large (270-340 g) beans are placed evenly on cluster size is large-sized, flesh is crispy, taste and aroma; peel is thick, black-violet, strong bloom; force hub is medium to large, has good resistance to drought and disease (blight, powdery mildew and gray mold) grape maturation takes place in September, the yield is 4.9 to 5.3 kg / vine; accumulate 187 g / 1 sugar and 3.9 g / 1 acidity has increased resistance to manipulation, transport and storage (Costescu A. et al., 2010). Perlette 10 St. (figure 4) - was obtained by clonal selection from the variety Perlette to INCDBH Ştefăneşti and approved in 2008; variety for fresh consumption and raisin, compotes, marmalades, jams, earlyness required by the commercial value of the grapes, the grapes are uniaxial peg, medium-sized (245-370 g on average), compactors. Medium grain (2.60 to 5.40 g), spherical white to greenish bloom because of the thick, meaty flesh, crisp, unflavoured, grape stalk and cob remains herbaceous (young branches) biological resistance: sensitive to frost as the variety of origin (-16 ° C ... -18 ° C) sensitive to mildew, crack grains easily reached maturity, even after low rainfall, attacked by wasps (Costescu A. et al., 2012).

Table 3. Statement of I.N.C.D.B.H. wine heritage Stefanesti-Arges in 2012

Variety destination	Variety	Total area (ha)	%
Noble wine, of which:		407,00	96,13
- white varieties, of which:		221,5	52,42
	Fetească regală	163	-
	Riesling Italian	20	-
	Fetească albă	5	-
	Ezerfurtü	19	-
	Palava	2,5	-
	White mixture	12	-
- aromatic type, in which:		39	9,34
	Sauvignon	19,5	-
	Tămâioasă românească	19,5	-
- red varieties, of which:		136,5	38,24

	Merlot	15,5	-
	Alicante Bouschet	3	-
	Burgund	76	-
	Cabernet Sauvignon	37	-
	Red mixture	5	-
Varieties for total		16,39	3,87
grapevine			
in which:			
	Victoria	5	-
	Augusta	1	-
	Muscat d'Adda	3	-
	Afuz-Ali	1	-
	Perlette	1	-
	Table grape mixture	5,39	-
TOTAL AREA		423,39	100

CONCLUSIONS

- 1. Over time the INCDBH Ştefăneşti Arges was approved two varieties of table grapes: ARGESSIS, Golden Ştefăneşti and two clones: Perlette 10 St and Muscat Adda 22 St.
- 2. In 1989 the total area occupied by grape-vine was 1,100 ha in 1998 this increased to 1193 ha surface, then begins to decrease rapidly, due to land restitution processes.
- 3. The total area of INCDBH Ştefăneşti in the year 2012 is only 423,39 ha of which 16,39 ha planted with varieties table.
- 4. In one particular vineyard Ştefăneşti invested in viticulture, it acquiring an area of 30 hectares (busy with vines vines 20-25 years ago) and by a European project began planting the rest of the wine-growing aging population or represented by vineyards not exceeding 1000 m².

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