Summary report on research accreditation

I. General information

Name of	Scientifical and Practical Institute of Biotechnologies in Animal					
organization	Husbandry and Veterinary Medicine					
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0 : 4: 4						
Organization type	Ministerial research institute					
(to underline) Research mission	The main purpose is to provide scientific-technological support to					
of organization	developing the livestock sector and veterinary medicine of Moldova, by					
or or guinzation	fundamental and applied scientific research in principal industries: cattle,					
	sheep, swine, poultry, rabbits, bees and the problems of nutrition and					
	normal feeding of animals, breeding of animals and regulation of					
	reproductive functions, bioconversion of organic waste.					
Strategic research	- Strategic direction 04 - agriculture biotechnologies, soil fertility					
direction (s)	and food security;					
	 Development of scientific principles to maintain and diversify the 					
	gene pool of animals approved in the country and ensure optimal					
	operation of their reproduction;					
	Rational use of the productive potential of animal breeding					
	through genetic control of quantitative and qualitative characters					
	of productive manner;					
	 Development of new principles to increase the hereditary variability of domestic animal breeds; 					
	variability of domestic animal breeds,					
	- Creation of breeds, types, new hybrids with increased					
	productivity and adaptability through applying domestic and					
	imported gene pool;					
	 Development of modern technologies in breeding, running, 					
	reproduction and nutrition of animals;					
	- Development of new technologies for fodder production and					
	conservation in order to achieve the genetic potential of animals production;					
	production,					
	- Optimization and development of procedures, methods and new					
	control and disease prevention schemes in animal breeding.					
Evaluated period	2007-2011					
Web of	http://www.agriculture.md/tevit/index.html					
organization						

II. Research capacity (annual average for evaluated period)

71,4							
			39,6)			
ASM full	AS	M	Professor	Associat	ed	Dr.	Dr. (PhD)
members	corre	esp.		professo	or	hab.	
	mem	bers					
0	1		3	14		10	12
FP7	STCU B		Bilate	eral Others		Others	
0	0		0	0			0
Dr.(PhD)		PhD stud	dents		Oth	ers
(0		4			0	
Public	budget	oudget International		Research contracts		contracts	
	project/grants						
44:	1 0		550,2),2		
Sal					Oth	ier	
			develop	ment			
106	2 56	56 1204,2				1821	62
	members 0 FP7 0 Dr.(Public 44 Sa	members correment 0 1 FP7 0 Dr.(PhD) 0	members corresp. members 0 1 FP7 0 Dr.(PhD) 0 Public budget 4432,6 Salary	ASM full ASM corresp. members 0 1 3 FP7 STCU 0 0 Dr.(PhD) PhD study 4 Public budget Internation project/g 4432,6 0,0 Salary Infrastru development	ASM full ASM corresp. members STCU Bilater 0 1 3 14 FP7 STCU Bilater 0 0 0 0 Dr.(PhD) PhD students 4 Public budget International project/grants 4432,6 0,0 Salary Infrastructure development	ASM full ASM corresp. members STCU Bilateral O 1 3 14 FP7 STCU Bilateral O 0 0 Dr.(PhD) PhD students 4 Public budget International project/grants 4432,6 Salary Infrastructure development	ASM full corresp. members Professor Associated professor hab. 0 1 3 14 10 FP7 STCU Bilateral 0 0 Dr.(PhD) PhD students Oth 4 0 Public budget International project/grants 4432,6 0,0 550 Salary Infrastructure development Oth

Expenditures for	Equipments	IT infrastructure	Endowment of		
-	Equipments	11 mirastructure			
infrastructure			experimental resorts		
development (thousand			-		
MDL)	478,5	75,0			
List of 3 basic research	1. Technology of growt	h and exploitation of catt	le in loose housing		
methods, installations,	2. Innovative technolog	y of production of combi	ned and granulated		
technologies (per	fodder with the full valu	ue for rabbits			
accredited field)	3. Technology for obtai	ning and processing the o	ow milk		
List of provided	- consultations on maintenance, growth, nutrition, reproduction and				
scientific services	prevention of disease	es of animal and birds;	_		
	 Support in developing and implementation Technological Transfer 				
	projects;				
	 consultations and pra 	actical help to prepare to	the attestation of farms;		
	- Technology for gro	wth and exploitation of	animals (by species),		
	depending on concrete conditions of the farm and request the owner;				
	 Research on chemical 	al composition of feed;			
	– norms and rations for poultry and animal nutrition;				
	 Advanced technology for preparation of feed and efficient use of 				
	concentrates;	· -			

	 services of evaluation of cattle, young sheep, rabbit
List of editorial	Scientific edition "Agricultura Moldovei" (Agriculture of Moldova)
activities	

III. Distribution of number projects and themes during evaluated period

Project	2007	2008	2009	2010	2011
Institutional projects	3	3	3	3	1
Projects in the frame of	1	1	-	-	-
State Programmers					
Technological transfer	3	4	2	1	1
projects					
Projects for equipment procurement	-	-	-	-	-
Project for young	-	-	-	-	-
researches					
Project in the frame of	1	1	-	-	-
bilateral programmers					
International	-	-	-	-	-
projects/grants					
List of 3 representative	-				
international					
projects/grants				ı	_
Research contracts	1	1	1	1	1
List of 3 representative	1. Development of recipes of compound feed for poultry and animal				
research contracts	waste processing, including sorghum;				
	2. Improvement of lines created in the framework of new type of tsigai				
	sheep and creation of new lines based on selection of population "in				
	itself"				
	3. Continuous improvement of the types of moldavian tsigai sheep for wool-meat-milk				

IV. Scientific publications

Total number of	Books	Chapters in books	Journal papers		
publications abroad	1	0	21		
Total number of	Books	Chapters in books	Journal papers		
publications in ISI	0	0	16		
journals and books					
Total number of	Books	Chapters in books	Journal papers		
publications in the	3	1	70		
country					
Total number of	International abroad	International in the	National		
conference abstracts	11	country			
		4	7		
List of 5	1. SMIRNOV, E., FOCSHA, V., CONSTANDOGLO, A. Methods				
representative	of creating the type of Moldavian Black Spotted cattle. Coordinator.				
publications (per	E.D.SMIRNOV. Chisinau, type. "Elena VI", Ltd, 2007, 180 p ISBN				
accredited field)	978-9975-9750-5-6. (Re	omanian)			

- 2. SMIRNOV, E. D; SHUMANSKII, A.V; KONSTANDOGLO, A. G; FOCSHA, V. F The evolution of dairy cattle in Moldova. Chisinau, "Print-Caro" Ltd., 2010, 329 p. ISBN 978-9975-4152-0-0. (Russian)
- 3. LIUTSCANOV, P.I.; NASIBOV, M. G.; MARZANOV, N. S, PETROV, S. N Genetic characteristics of the Moldovian sheepskin-of dairy type karakul breed sheep. in: Bulletin of the Russian Academy of Agricultural Sciences (RAAS), 2007, 4, c. 92-94. ISSN 0869-3730. (Russian)
- 4. CAISIN, L., HAREA, V. Comparative Characteristics of the nutritional values of fodder in Moldova. In: Animal science and biotechnologies. University of Agricultural Sciences and Veterinary Medicine. Series Animal Husbandry and Biotechnology, vol.67 (1-2), ISS, Cluj-Napoca, 2010, p.102-109. (English)
- 5. BULARGA, I.; SHUMANSCHII, A. Nutrition and feeding of livestock. Ch: "Print-Caro" Ltd., 2009. 326 p ISBN 978-9975-9930-8-1. (Romanian)

List of 5 citations

- 1. KONSTANDOGLO A.G., V.F. FOCSHA Genetic polymorphism of blood systems in black and white cattle of the Moldavian type. Journal of animal husbandry, 1998. Number 8, p.3-5 (Kerry L. Using blood-group antigens of in breeding work with black andwhite cattle Transural. Thesis for the degree of PhD of agricultural sciences. Kurgan, 2007).
- 2. MARZANOV NS, LYUTSKANOV P. AND OTHER, Ecological and genetic characteristics of the moldavian type of tsigai sheep. Proceedings of II International Scientific and Practical Conference. Dubrovitsy, 2003, p. 100-103. (Yatskin VI, Improving the efficiency of lamb, Moscow 2008)
- 3. SMIRNOV, E. D. Productive and technological quality of intermediate genotypes Moldovan black and white cattle, Agropromizdat, 1990. p. 45-51. (Kosolapov, G. V. Improving black and white cattle through improved feed and feeding optimization in the Volga-Vyatka region of Russia: Thesis of Doctor of Agricultural Sciences: 06.02.04, 06.02.02. Lobnya, 2009)
- 4. KONSTANDOGLO A.G., V.F. FOCSHA Genetic polymorphism of blood systems in black and white cattle of the Moldavian type. Journal of animal husbandry, 1998. Number 8, p.3-5 (Bugaev, Sergei Petrovich, Using erythrocyte antigens in the selection of Simmental cattle. Thesis for the degree of PhD in agricultural sciences. Kursk, 2007)
- 5. KONSTANDOGLO A.G., V.F. FOCSHA Genetic polymorphism of blood systems in black and white cattle of the Moldavian type. Journal of animal husbandry, 1998. Number 8, p.3-5 (Politkin, Dmitry Yu. Effect of selection of animals in groups of blood on the reproductive ability of cows and growth. Thesis for the degree of PhD in biology. Country Forest Glade, Moscow Region, 2011)

V. Innovation outputs

Total number of	Registered in the country	Registered abroad	Implemented				
patents	10						
		1	6				
Total number of	Registered	Non-registered	Implemented				
new developed							
methods and	6	3	6				
technologies							
Total number of	Registered	Non-registered	Implemented				
new scientific							
products	6	1	6				
Total number of	1. Program for the eradicat	ion of enzootic bovine le	eucosis for 2008-2015.				
scientific outputs	Approved by Government	Decision nr.473 of 26/03	5/2008				
for central and	2. Insurance program with		* *				
local authorities	by the Minister of Agricult	ture and Food Industry no	o. 205 of 12.10.2010.				
(draft of law,	3. The strategy "Milk". Ap	3. The strategy "Milk". Approved by the College of the Ministry of					
strategies etc.)	Agriculture and Food Industry (2011);						
	4. Draft of Law "Animal husbandry".						
	5. Sanitary - veterinary hygiene and content of undesirable substances in						
	feed, 2008 (S. Cosman, M. Bahcivanji, et al)						
	6. Technical rules.						
	7. Forms of zootechnical and breeding evidence for goat farms in Moldova.						
	8. Projects of Regulations of the animals fund (cattle, sheep).						
Total number of	Handbooks for high	Handbooks for	Delivered university				
scientific outputs	education	pre-university	courses				
for educational							
institutions	3 0 0						
List of 5	1. Type of Moldavian Black Spotted cattle (Patent no. 3923, 2009);						
representative		Ioldavian sheep (Patent r					
innovation	3. Elite type of Tsiga	i Moldavian sheep (Pater	nt no. 3440, 2007).				
outputs	4. Premix for calves (Patent no. 284, 2010);						
(per accredited	5. Process for celulazo-amylase complex purpose in animal						
field)	husbandry (Patent	no. B1, 2011);					

V. Major scientific and innovation achievements

Short description of	- The environment for dilution of boar semen, Gold Medal at							
main scientific	International Exhibition of Innovation, Research and New Technologies							
results and its	"Brussels-eu	rica", Darie G	., Marandici I	E. and other; the	his innovation			
confirmation (by	refers to pro	oblems in artif	ficial sowing of	of pigs, conserv	vation of boar			
awards, citations,	semen in hyp	oothermal temp	eratures.					
development of								
international	- The addition of elaborated feed for young cattle increases breeding							
projects etc)	intensity of young cattle and increase resistance to illness specific.							
	Additions fodder for young cattle, Silver Medal at Exhibition							
	"Infoinvent" 2010, Diploma, Coshman S., Bahcivanji M. and other;							
Number of	2007	2007 2008 2009 2010 2011						
organization invited	1	1	2	2	0			
speakers at								

international							
conferences							
Short description of			-	on of technolog	•		
technological		valorization of the genetic potential in swine culture" (2006-2007);					
transfer and	2. Contr	act 07.407.41T	' "Implementat	ion of advance	d technologies		
innovational results	for recov	ery the genetic	potential of ca	ttle (2007-2008);		
and its certification	3. Contra	act 07.407.42T	"Implementation	on of the new pr	roduction lines		
by implementation	of sheep	Alexanderfeld	tsigai" (2007-2	.008);			
					n in apiculture		
	4. Contract 08.169.73T The practical implementation in apiculture of a hive "model" to reproduce the race Apis mellifera Carpathian						
	bees to restore the local gene pool "(2008-2009);						
	5. Contract 08.169.69T Implementation of new biotechnologies to						
	improve the accelerated domestic rabbits to restore genetic fund of						
	animal husbandry (2008-2009);						
	6. Contract 10.824.04.108T Implementation of innovative						
	technology for producing granulated fodder and feeding of domestic						
	rabbits (2010);						
	` ''						
	7. Contract 11.824.04.145T "Implementation of Holstein breed in						
	the center of the Republic of Moldova" (2011).						
X 1 0 1 0 1 1	2007 2000 2000 2010						
Number of defended	2007	2008	2009	2010	2011		
dr. hab. And dr.							
theses per year	0	1/1	0	2/0	0		

VII. Present/further involvement in the Seventh Fragmework Programme (FP 7): specific programmes (Cooperation, Ideas, People, Capacities) of interest and its sub – divisions.

Cooperation: Food, Agriculture and Biotechnology (developing technologies for the potential production of agricultural animals, the production of organic livestock)

Ideas: The international scientific projects in the conservation and development of indigenous animal breeds and types, creation of databases on genetic biodiversity fund of animals

People: Areas of knowledge; Science in the society (the impact assessment of processes for intensifying of reproduction and nutrition on the physiological balance in animal production and safety production.

VIII. Accredited research field and its evaluation by the National Council for Accreditation and Attestation of the Republic of Moldova (very good/good/satisfactory)

Technologies in animal husbandry and veterinary medicine

IX. Category (A/B/C) attributed by the National Council for Accreditation and Attestation of the Republic of Moldova to the organization

Category B

X. Institutional development actions planned for the next 5 years (maximum S page)

- -Bi-annual hearing at Methodology Committee of doctoral and leaders of PhD theses on going the planned research and perfecting the thesis;
- -Development and submitting for approval by the higher organs of the nomenclature of services provided by institute for payment;
- -Elaboration of at least 1-2 research projects in partnership with foreign organization;
- -Semestrial update of web pages;
- -Elaboration technology for producing competitive animal products (annually one for each species);
- -Organization on annual basis of at least 1-2 scientific-practical seminars for users;
- -Publication of articles to popularize the science in magazines and newspapers, participation at radio and TV.