



National Institute for
Agrarian and Veterinary
Research 

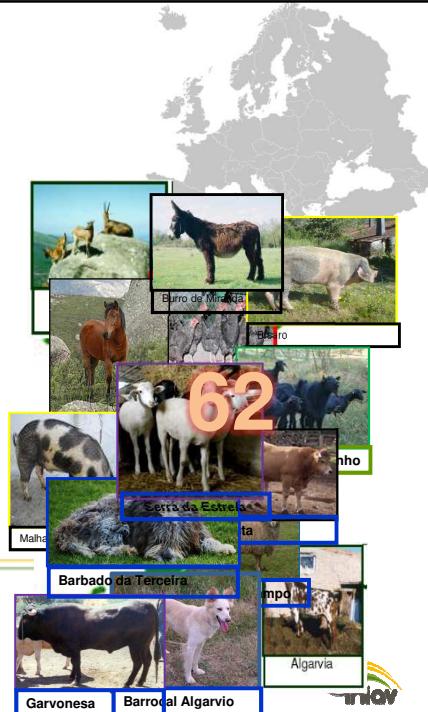
Portuguese Animal Germplasm Bank
animal genetic resources

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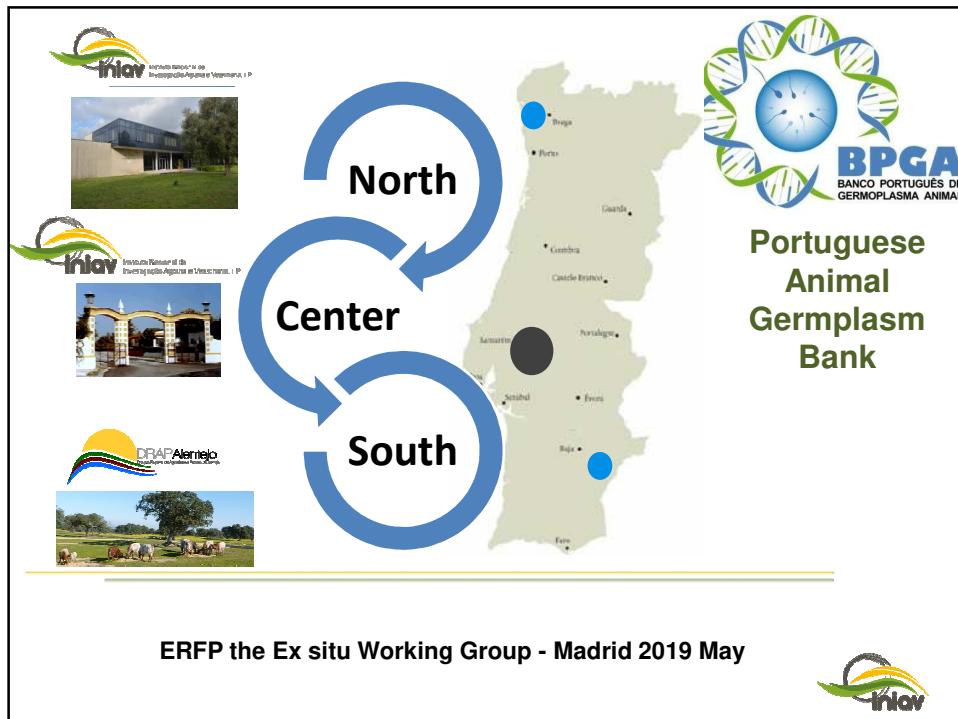
ERFP the Ex situ Working Group - Madrid 2019 May



Portugal has a rich and diverse animal genetic heritage with 62 autochthonous breeds

Several of the domestic animal autochthonous breeds of Portugal are currently in an endangered status

Labels for the breeds in the collage:
Burro de Mira
Bebelo
Malhado
Serra da Estrela
Barbado da Terceira
Garvonesa
Barrocal Algarvio
Algarvia



Embryos			Semen		
Breed	Nº	Total	Cattle	Sheep	Goats
Ch Galega	6	20	Alentejana	Bordaleira ED	Algarvia
Mirandesa			Algarvia	Minho	Bravia
Mer Prta	29	161	Arouquesa	Campaniça	Charnequeira
Algarvia	7	41	Barrosã	Churra Algarvia	Preta de Montesinho
Serpentina	14	93	Brava	Churra Badana	Serpentina
Bravia	2	10	Cachena	Churra do Campo	Serrana (3 ecotipos)
Serrana	4	41	Garvonesa	Churra do Minho	
Alentejana	10	51	Jarmelista	Chur G Mirandesa	
Mertolenga	2	9	Marinhoa	ChuG Brangançana	
Ovarian tissue			Maronesa	Merina Branca	
Algarvia	3	6 ov	Mertolenga	Merina da Beira Baixa	
			Minhota	Merina Preta	
			Mirandesa	Mondegueira	
			Preta	Saloia	
			Ramo Grande	Serra da Estrela	
			Brava		
15 breeds, 235 animals, 175 834 doses			Pigs and horses		
Algarvia			14 breeds, 92 animals, 12842 doses		
			1 breed each		



DNA

- ❖ DNA samples from all animals integrating BPGA
- ❖ Blood and hair samples

Analysis of molecular markers to estimate intra- and inter-racial genetic variability and to measure genetic distances between breeds were done to perform their characterization

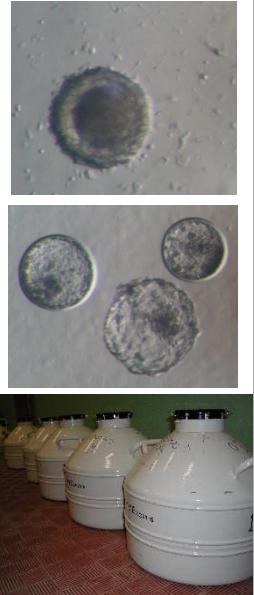


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DGAV and INIAV joint mission

- ❖ Principal goal – to ensure the recovery and maintenance of germplasm from all Portuguese breeds:
 - Gamete
 - Embryos
 - Somatic cells
 - DNA
- ❖ To guarantee its long-term conservation, in accordance with the recommendations of the competent international organizations



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DGAV and INIAV joint mission

- ❖ Guarantee their availability for use in the selection and conservation programs of the Portuguese breeds, according to the norms established in the BPGA rules
- ❖ Promote the exchange of information and, when appropriate, genetic material with foreign counterparts



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Portuguese Animal Germplasm Bank

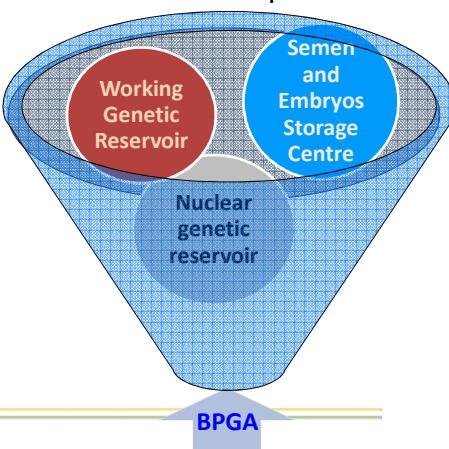


BPGA Committee

- 2 INIAV
- 2 DGAV
- 3 from breeders associations



Sept 2010



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The slide features the logo of the Banco Portugués de Germoplasma Animal (BPGA) on the left, which includes a stylized DNA helix and the acronym BPGA. To the right are three images: a close-up of a dark, shaggy animal (possibly a sheep or goat), a group of chickens in a pen (one highlighted with a red box), and a full-grown sheep standing in a field.

- ❖ Semen from donors standing at a semen collection Centre approved by the competent authority in accordance with Directive 88/407/EEC
- ❖ Embryos must be collected and processed by approved and supervised embryo collection teams
- ❖ Donors health status must ensure that the risk of spreading animal disease is eliminated
- ❖ Conservation proposes



Below the text, there are three photographs of laboratory equipment: three white cylindrical liquid nitrogen tanks labeled 'MVE 300', two large stainless steel tanks on wheels, and a white horizontal deep freezer.



The left side of the slide shows a photograph of a person herding a flock of sheep and goats across a green pasture. The right side contains the BPGA logo, a 'THANK YOU' message, a map of Europe with a green ribbon highlighting Portugal, and the text 'ERFP the Ex situ Working Group - Madrid 2019 May'.

THANK YOU



At the bottom right are the logos for the ERFP (Ex situ Working Group) and INIAV (Instituto Nacional de Investigación y Desarrollo Agrario y Alimentario).

	Portuguese Breeds						
	Cattle	Goats	Horses DonKeys	Chicken	Ovinos	Pigs	Dogs
1	Alentejana	Algarvia	Burro de Miranda	Amarela	Bord. Entre Douro e Minho	Alentejana	Cão de Castro Laboreiro
2	Algarvia	Bravia	Burro da Graciosa	Branca	Campaniça	Bisara	Cão da Serra da Estrela
3	Arouquesa	Charnequeira	Garrana	Pedrês Portuguesa	Churra Algarvia	Malhado de Alcobaça	Rafeiro do Alentejo
4	Barrosã	Preta Montesinho	Lusitana	Preta Lusitanica	Churra Badana		Cão de Fila de S. Miguel
5	Brava de Lide	Serrana	Sorraia		Churra da Terra Quente		Cão da Serra da Aires
6	Brava dos Açores	Serpentina	Ponei da Terceira		Churra do Campo		Podengo Português
7	Cachena				Churra do Minho		Perdigueiro Português
8	Garvonesa				Churra Galega Bragançana Branca		Cão de Água Português
9	Jarmelista				Churra Galega Bragançana Preta		Cão de Gado Transmontano
10	Marinhoa				Churra Galega Mirandesa		Barbado da Terceira
11	Maronesa				Churra Mondegueira		Cão do Barrocal Algarvio
12	Mertolenga				Merina Branca		
13	Minhota				Merina Preta		
14	Mirandesa				Merino da Beira Baixa		
15	Preta				Saloia		
16	Ramo Grande				Serra da Estrela		