



National Institute for
Agrarian and Veterinary
Research



Portuguese Animal Germplasm Bank animal genetic resources

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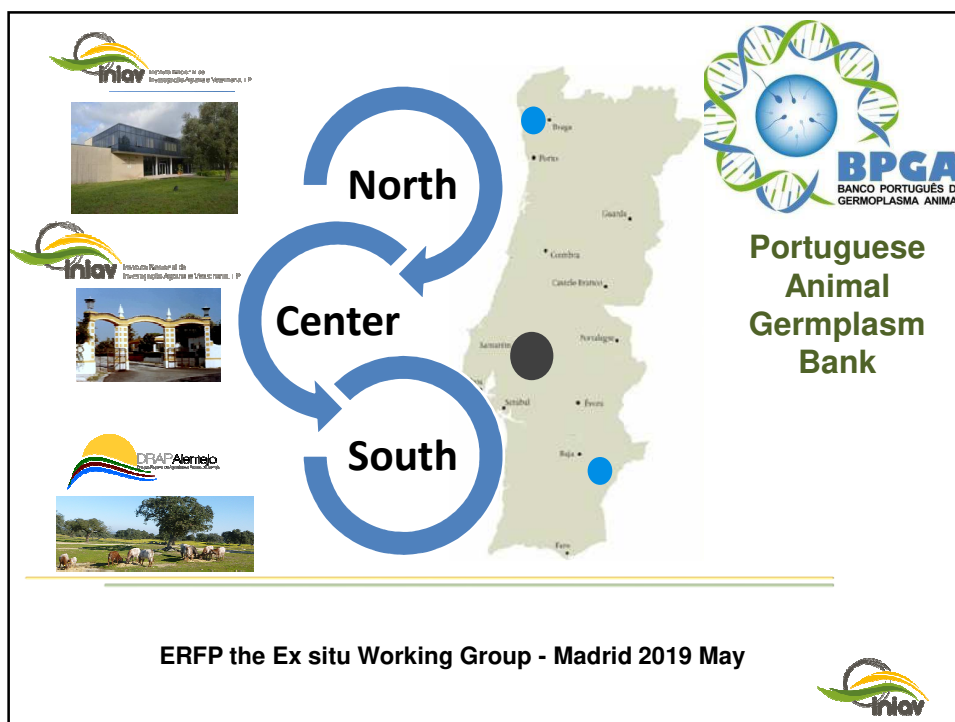


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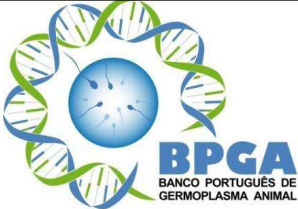
**Portugal has a rich
and diverse animal
genetic heritage
with 62
autochthonous
breeds**

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





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
Serpentina	14	93	Brava	Churra Badana	Montesinho
Bravia	2	10	Cachena	Churra do Campo	Serpentina
Serrana	4	41	Garvonesa	Churra do Minho	Serrana (3 ecotipos)
Alentejana	10	51	Jarmelista	Chur G Mirandesa	6 breeds, 59 animais, 12588 doses
Mertolenga	2	9	Marinhova	ChuG Brangançana	
Ovarian tissue			Maronesa	Merina Branca	Pigs and horses
Algarvia	3	6 ov	Mertolenga	Merina da Beira	
			Minhota	Baixa	1 breed each
			Mirandesa	Merina Preta	
			Preta	Mondegueira	
			Ramo Grande	Saloia	
			Brava	Serra da Estrela	
			15 breeds, 235 animais, 175 834 doses	14 breeds, 92 animais, 12842 doses	



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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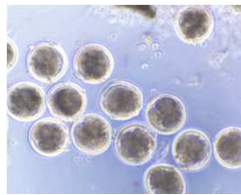




DGAV and INIAV joint mission



- ❖ **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

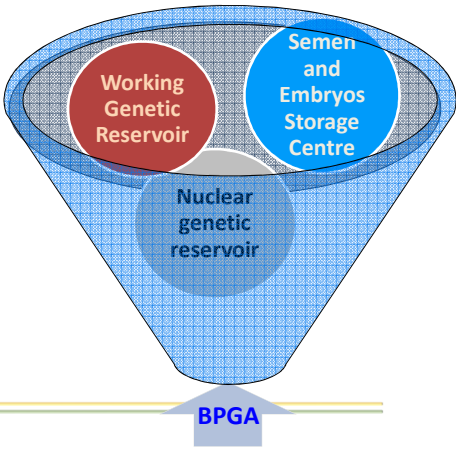




Sept 2010

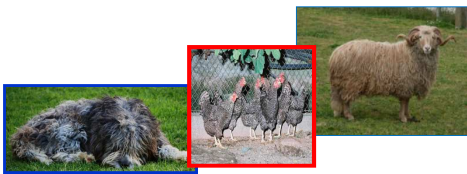
BPGA Committee

- 2 INIAV
- 2 DGAV
- 3 from breeders associations



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- ❖ 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



THANK YOU



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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 Alcobça	Rafeiro do Alentejo
4	Barrosã	Preta Montesinho	Lusitana	Preta Lusitânica	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	Marinhova				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		