

Animal Gene Bank in Turkey

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***In vitro* conservation and
preliminary molecular identification
of some Turkish domestic animal
genetic resources-1**

www.turkhaygen.gov.tr

ERFP

**Guidelines for the
Constitution of
National
Cryopreservation
Programmes for
Farm Animals**

S.J. Hiemstra

Genetic resources will be conserved and stored in banks (*ex situ, in vitro*) and within the various forms (DNA, cell, tissue, embryo, semen) .

Characterization of species specific polymorphic sequences in genome

Determination of phylogenetic relationships between species by using polymorphic sequences.

Establishment of a data bank which stores the genomic information of these species on web.

Establishment of a long-term continuous action in conservation of animal genetic resources (AnGR)

Improving the common-sense about conservation of AnGR at society.

Establishment of corporation between public institutes, information integration and improvement of infrastructure

Training of new staff in the field of animal genetics and biotechnology.

Collaboration with scientists and research centers, working on conservation of genetic resources at abroad, especially in Europe.

Commitment of international responsibilities in environmental politics.

Development of alternative technologies in genetic conservation.



Cattle Breed	Semen	Embryo	DNA	Somatic Cell
Anatolian Black	6.886	86	54	51
Anatolian Grey	12.250	-	19	17
Eastern Anatolian Red	5.745	-	45	45





Cattle Breed	Semen	Embryo	DNA	Somatic Cell
South Anatolian Red	976	-	50	52
Southern Yellow	515	-	51	51



Sheep Breed	Semen	Embryo	DNA	Somatic Cell
Gokceada	730/23	102	50	49
Morkaraman	556/13	173	50	44
Karakul	465/13	60	50	48
Sakız (Chios)	298/7	22	49	47
Hemsin	550/18	64	48	48

Sheep Breed	Semen	Embryo	DNA	Somatic Cell
İvesi	681/23	50	51	51
Daglıc	635/19	8	50	50
Herik	603/18	50	49	48
Norduz	807/23	36	54	49

Sheep Breed	Semen	Embryo	DNA	Somatic Cell
Kivircik	656/21	185	45	43
Cine Capari	530/16	40	39	39
Karayaka	663/25	136	49	64
Akkaraman	704/23	65	50	49



Goat Breed	Semen	Embryo	DNA	Somatic Cell
Angora goat	679/25	231	59	52
Kilis goat	692/24	127	51	51



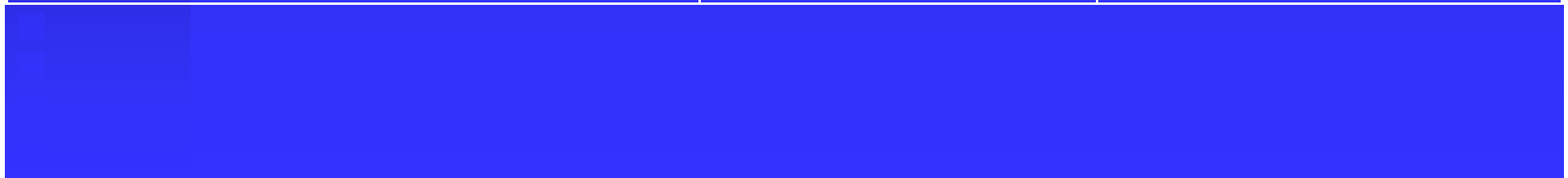


Goat Breed	Semen	Embryo	DNA	Somatic Cell
Kıl (Hair) goat	193/6	74	51	45
Honamlı goat	642/20	171	49	41
Norduz goat	444/13	63	49	49





Horse Breed	DNA	Cell
Çukurova	60	51
Ayvacık	49	40
Canik	64	33



Horse Breed	DNA	Cell
Hinis'in Kolu Kısası	60	42
Malakan	64	51

Problems

Difficult management

**Poor superovulatory
response**

Poor embryo quality