



PRESERVATION OF GENETIC HERITAGE

Restoration of an equine genotype from our cell cryobank was proven by CRYOZOOTECH Preservation of exceptional genes is a duty for future generations

As well as its commercial activity, CRYOZOOTECH proposes to participate to the preservation of equine genes in a non profit cryobank. Cryozootech would provide its laboratory and its knowledge of this subject



What we have already done

➤ **Collaboration with Poitou Donkey Association**

As early as 2001, Cryozootech started to collaborate with the Parc de Marais Poitevin who is in charge of the preservation of the Poitou Donkey Breed. The first biopsy of a great Ass was made in December 2001.

➤ **Preservation of Trait Mulassier**

In 2005, we collected our first sample from a Mulassier, an old breed of draft horses bred in the old days for the production of mules.

➤ **Storage in French National Cryobank organisation**



Genes to be preserved

➤ **Endangered equine species**

In Africa, the African wild ass (*Equus africanus*) is Critically Endangered (CR), the Grévy's zebra (*Equus grevyi*) and the mountain zebra (*Equus zebra*) are Endangered. In Asia, the Asiatic wild ass (*Equus hemionus*) is Vulnerable (VU)

➤ **Old breeds and lines of horses and donkey**

Not only exotic horses as Prezwalski or Tarpan, but also many old breeds have decreasing number and may disappear if nothing is done.

➤ **Famous horses from breeds in which gene preservation has not been yet considered**

In the past century, we have seen many outstanding race horses. They left many offspring and their blood is not lost, but the exceptional combination of genes is lost. A collection of great champions would allow to trace the genetic evolution of breeds.



Legal status

➤ **Non profit CRYOBANK would have a charity status**

As any long term initiative for general interest, a non commercial structure is necessary. All Horse Lovers are welcome to participate.

➤ **The preserved genes could belong to the bank or remain privately owned**

As in the French National Cryobank, we propose that privately owned genes could be stored in this charity organisation.

➤ **Long term preservation does not imply that cloning will be carried out straight away**

Of course, cloning is not a primary objective of a preservation bank. The scientific use is not only restoration by cloning, but also having access to all new technologies and be able to study these wonderful animals' genes.