

## Survey: Innovations and ethical issues for the cryoconservation of animal genetic resources

### I. General information

#### 1. Type of your Institution

- Genebank
  - public
  - private
- Breeding company/breeding industry
- Biotechnology company
- Breeders Association
  - Single breed
  - Various breeds
- Science (University, research organization)
- Extension service
- NGO
- Government
- Other, please specify.....

#### 2. Your role in the Institution

- Technical Management
- Funder
- Directorate
- Other, please specify.....

#### 3. The view you represent

- My own
- My institution

#### On which species are you working? Multiple options are possible.

- Cattle       Sheep       Goats       Horses
- Pigs       Poultry       Aquaculture       No particular species

#### On which breeds are you working?

- Rare breeds
- Commercial breeds
- Both
- No particular breed

## II. Motivation for Breed Conservation

### 1. What are the main objectives of cryoconservation of breeds in a gene bank? (please put in order of importance(1 is most important, e.g. 4-3-2-1-5,))

- Insurance to recreate/revive a breed/breeding line in danger of/quasi extinction
- Research & genetic diversity studies
- Development of new breeds/lines
- Support of in situ conservation
- Introduce genetic diversity in breeding programs
- Others, please specify.....

### 2. What should be the main criteria to choose a breed for cryoconservation (max. 3 answers)

- High degree of endangerment
- Special traits and characteristics of value
- Cultural heritage
- Genetic distinctiveness
- Current economic value
- All breeds should be cryoconserved
- Within breed genetic diversity
- Others, please specify.....

### 3. Who shall prioritize and decide, which breed and to what extend should be cryoconserved (more than one answer possible)?

- Breeding organization
- Researchers
- Government
- Gene bank manager
- A multi actor Board
- Others, please specify.....

### 4. Do you think that cryoconservation may have an impact on in situ conservation? Which one?

- Revitalizing blood lines
- Collaboration of conservation breeders and research
- Conservation of within-breed genetic diversity
- Negative effect on support/subsidies for in situ conservation
- Others, please specify.....



**IV. Any other ethical issue you would like to mention regarding cryoconservation of animal genetic resources (free text)**

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*Thank you very much for your kind collaboration*