

IMAGE Scientific Conference- Madrid, Feb. 5, 2020

Gene banks for animal genetic resources : what's new ?

9h Introduction Michèle Tixier-Boichard

Session 1 : Current analysis of animal gene banks in Europe and options for optimization

9h10 Pan-European gap analysis of livestock gene bank collections. Gregoire Leroy et al.
9h30 Economic optimization of national and pan-European gene bank collections. Rafael Silva et al.
10h Ethical and social values associated with gene bank collections. Michèle Tixier-Boichard et al

10h30 break and posters

Session 2 : New methods to preserve genetic resources

11h Strategy for biobanking avian resources:
Advantages and limits in the implementation of a sperm cryobank. Julian Moreno & Elisabeth Blesbois
Poultry stem cells for biobanking avian genetic resources. Mike Mc Grew et al.
A hybrid model to restore resources of avian species using PGC or gonadal tissue transfer.
Krisztina Liptoi et al.

11h40 Modelling vitrification for mammal embryos. Henri Woelders & Florence Guignot

12h00 Lunch

Session 3 : New knowledge on genetic resources obtained from gene bank collections

13h20 Which genes to trick to grow feathered feet? Chiara Bortoluzzi
13h40 Reading the history of the Asturiana de los Valles breed in its genome. Susana Dunner et al.
14h00 Deciphering adaptation to environment by landscape genomics. Paolo Ajmone-Marsan et al.

Session 4 : Collecting and connecting data to characterize genetic resources

14h30: A new standard to compare gene bank collections: the IMAGE multi-species SNP chip.
Richard Crooijmans
15h00 IMAGE data portal and tools for efficient access and use of information. Alessandra Stella

Session 5 : Enhancing the use of gene bank collections for fitter livestock farming

15h30 MoBPS – a web-based tool to make optimal use of genetic resources in breeding programs.
Henner Simianer & Torsten Pook
15h45 Case studies
15h45 Breeding programs in the South American Creole cattle. Gabor Mezaros et al.
16h Trade-offs between genetic diversity and genetic merit when using gene bank bulls.
Harmen Doekes & Jack Windig
16h15 Painting eggs in blue. Claudia Dierks

16h40 break and posters

Session 6 : Prospects from IMAGE for the future of Animal Gene banks

17h10 The role of capacity building and updated FAO guidelines to support gene banking strategies.
Luis Telo de Gama
17h30 Expectations from breeders
EFFAB (speaker to be confirmed)
A public-private partnership on a reproductive technology (speaker to be confirmed)
17h50 Common objectives and specific issues for the 3 European networks of genetic resources,
ERFP, ECPGR, EUFORGEN (speaker to be confirmed)
18h15 Concluding remarks