



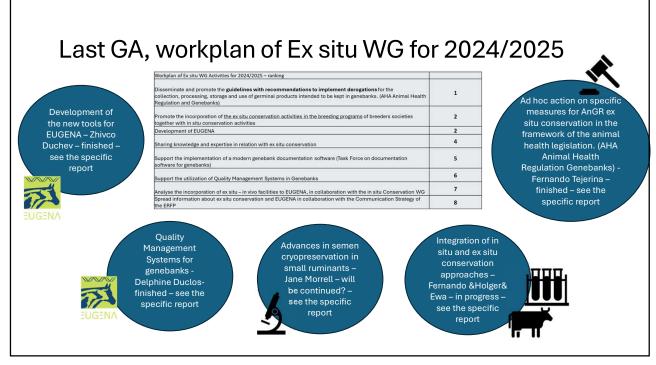
WORKING GROUP EX SITU CONSERVATION THE REPORT OF ACTIVITIES 2024-2025

Ewa Sosin Chair of the ERFP Ex Situ WG 22-23 August 2025 Innsbruck

Country	Name Member	Surname
Albania	Lumpturi	PAPA
Austria	Robert	Potyka
Bulgaria	Valentin	GEORGIEV
Croatia	Jelena	RAMLJAK
Cyprus	Catalina	CABRERA
Czech Republic	Jana	RYCHTAROVA
EFFAB	Ana	GRANADOS CHAPATTE (O)
Finland	Jaana	PEIPPO
France	Delphine	DUCLOS
Georgia	Giuli	GOGOLI
Germany	Steffen	WEIGEND
Greece	Katerina	SARATSI
Italy	Gustavo	GANDINI
Latvia	Dainis	RUNGIS
Lithuania	Alma	RAČKAUSKAITE
Montenegro	Milena	DJOKIC
Norway	Nina	SVARTEDAL
Poland	Ewa	SOSIN
Portugal	Rosa	PEREIRA
Romania	Livia	VIDU
Serbia	Srdjan	STOJANOVIĆ
Slovakia	Alexander	MAKAREVIČ
Slovenia	Danijela	BOJKOVSKI
Slovenia	Tina	FLISAR
Spain	Fernando	TEJERINA
Sweden	Jane	MORRELL
Switzerland	Markus	NEUDITSCHKO
The Netherlands	Annemieke	RATTINK
Ukraine	Svetlana I.	KOVTUN
United Kingdom	Marcus	BATES

- a) ERFP General Assembly 2024 Firenze, Italy (August 2024) report and workplan 2024/2025, AHA's
- b) EUGENA development (1 new country on board: Bulgaria; In 2025 3 new genebanks, new tools, collaboration with EuroFAANG and GenoPhenix)
- c) Ex situ WG meeting 2025 Athens, Greece collaboration with other WG's
- d) Collaboration with the ERFP Secretariat and SC

3



b) Development of EUGENA

• Italy, Romania, Montenegro, Slovenia, Albania, Spain, Poland, Portugal, The Netherlands, Austria, Serbia Latvia, Slovakia, Hungary, **Bulgaria**

3 new genebanks

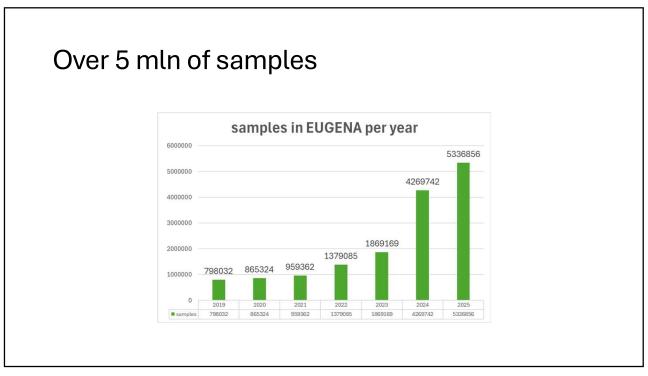




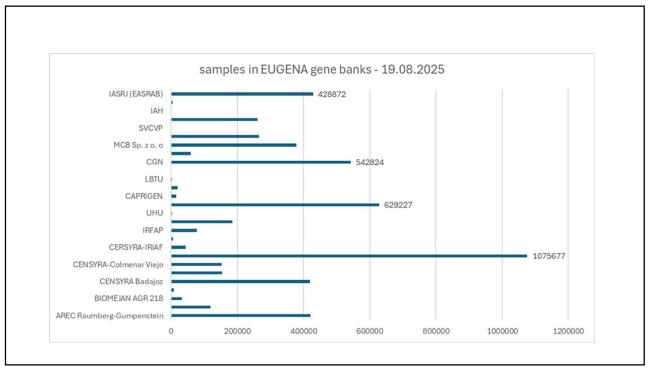
- 1 from Bulgaria Executive Agency for Selection and Reproduction in Animal Breeding,
- 2 from Spain CENTRO DE TRANSFERENCIA AGROALIMENTARIA, Centro de Selección y Mejora del Caprino Andaluz

5

Country	Number of Gene Banks	Species	Breeds	Samples	Germplasm material types
Albania	0	0	0	0	0
Austria	1	4	45	414595	1
Bulgaria	1	2	32	428872	1
Hungary	1	10	33	19413	5
Italy	0	0	0	0	0
Latvia	1	5	12	5693	3
Montenegro Montenegro	1	3	8	568	2
Netherlands	1	11	159	547591	5
Poland	2	3	15	438120	2
Portugal	1	7	44	299960	3
Romania	0	0	0	0	0
§ Serbia	3	4	18	263827	3
Slovakia	1	6	16	4369	3
Slovenia	0	0	0	0	0
Spain	14	8	125	2913848	3



7



3rd EuGena Steering Board Meeting – Olsztyn 2025, Poland



61st Meeting of the Society for Low Temperature Biology

Institute of Animal Reproduction and

Food Research of the Polish Academy of Sciences



9

Collaboration

- EuroFAANG (https://eurofaang.eu/) is a collaborative initiative that brings together several Horizon 2020 projects: GEroNIMO, AQUAFAANG, BovReg, GENE-SWitCH, Rumigen, and HoloRuminant.
- These projects have established a closer relationship to coordinate their objectives within Europe.
- Michele Tixier-Boichard, from INRAE, partner of EuroFAANG, presented the innitiative in the WG meeting and invite EUGENA and EUGENA members to collaborate in it.
- The EUGENA Steering Board members, discussed and approved the participation in the project and the ERFP Steering Committe authorised the collaboration of EUGENA with EuroFAANG.

Two forms of collaborations were proposed:

- Collaboration through the exchange of the information collected in the network and mutually supporting the development of both initiatives.
- Collaboration by integrating individual gene bank of the EUGENA network into the EuroFAANG biobank network based on activities of mutual interest.

11

GenoPhenix - a European research infrastructure to deliver consolidated services for research on genome and phenome interactions for terrestrial and aquatic farming systems

five aims:

- To sustainably produce and manage healthier farmed animals, with the highest welfare standards;
- To more accurately exploit animal variability through enhanced phenotyping and genotyping capacity;
- To contribute to the 3Rs (reduction, refinement, replacement) in animal research by providing suitable models for deep phenotyping in vitro as well as in vivo;
- To advance the analysis of genome function, combined with the collection of deep phenotypes and multiomics information at cell, tissue, animal and on-farm/population level resolution;
- To provide tools and knowledge from the above four aims for optimal and more precise breeding and animal health considering sustainable management practices, and conservation of genetic diversity.

EUGENA - GenoPhenix

March, 2025 – Letter of suport to GenoPhenix which now includes the whole EuroFAANG consortium and its objectives.

- Biobanking services: EUGENA gene banks could acting as mirror sites for EuroFAANG biobanks
- Sharing protocols, particularly to improve cell viability of cryoconserved germplasm or in relation with the legal status of the material in the collections
- Training activities for data and metadata standards
- Phenotyping local breeds
- Communicating on each other: one improves the notoriety of the other
- Joining different users' communities across a large number of countries
- Sharing expertise in the development and operation of databases for genebanks.

13

Annual meeting – Athens -6-7th May 2025

The issues of the ex situ WG meeting agenda were:

- 1. Inform on activities of the WG in the last year.
- 2. Updates on the status and recent activities of EUGENA, as well as country perspectives on joining the network
- 3. Report the AHA's: new tools on the EUGENA webpage, advances in semen cryopreservation in small ruminants, outcomes from the Software Database, and the self-assessment tool for quality management in livestock gene banks



Annual meeting – Athens -6-7th May 2025

- Discuss the regulations: guidelines for developing national animal health regulations for material intended for gene banks, amendments in Polish legislation on ex situ conservation, and a general discussion on regulations supporting conservation
- Share information on Institutional mechanisms: acquiring material from rare breed bulls for the Polish NBBM, and integration of in situ and ex situ conservation approaches
- Discuss the Country approaches to ex situ in vivo and in situ conservation, and discussion on incorporating ex situ in vivo facilities into EUGENA

15

Collaboration with other WG's

Joint session of all three WGs

The discussion emphasized the global and regional context of AnGR conservation, with a focus on transboundary breeds, the Global Plan of Action, and the Third Report on the State of the World's AnGR. The key outcome was the recognition if the need for stronger coordination and shared responsibility across countries to safeguard genetic diversity

Ex situ + doc info WG

The joint work underlined the critical role of improving data quality and transparency, particularly in DAD-IS reporting. Participants stressed that better documentation and common standards for ex situ management, especially for transboundary breeds, are essential for building trust and comparability across gene banks.

Ex situ + in situ WG

The session highlighted the strategic need to integrate ex situ and in situ approaches into a complementary system. By aligning institutional mechanisms, scientific tools, and awareness-raising activities, participants agreed that a coherent European framework is needed to reinforce the effectiveness and visibility of conservation efforts

d) Collaboration with ERFP Secretary and SC

- the dissemination of information and knowledge (about ex situ conservation activities) in the ERFP Webpage and social media.
- evaluation and update of the ERFP actions indicated in the action plan related to the European AnGR Strategy – virtual meeting
 18th of June 2025

17

4. Plans and priorities for the next year (to be formally approved by Assembly)

 Sixteen countries (Germany, France, Lithuania, Poland, Serbia, Slovenia, Spain, The Netherlands, Norway, Latvia, Croatia, Hungary, Ukraine, Switerland, Italy, Portugal) sent their ranking for the tasks, and the final result is the next





Workplan of Ex situ WG Activities for 2025/2026 – ranking	
Promote the incorporation of the ex situ conservation activities in the breeding programs of breeders societies together with in situ conservation activities (AHA in situ/ex situ integration)	1
Disseminate and promote the guidelines with recommendations to implement derogations for the collection, processing, storage and use of germinal products intended to be kept in genebanks. (AHA Animal Health Regulation and Genebanks)	2
Sharing knowledge and expertise in relation with ex situ conservation.	3
Development of EUGENA.	4
Spread information about ex situ conservation and EUGENA in collaboration with the Communication Strategy of the ERFP.	5
Analyse the incorporation of ex situ – in vivo facilities to EUGENA, in collaboration with the in situ Conservation WG.	6
Support the utilization of Quality Management Systems in Genebanks	7
Support the implementation of a modern gene bank documentation software (Task Force on documentation software for genebanks)	8

19

New AHA's

No	working title	leader	countries interested
1	ex situ in vivo	Zhivko and ?	UK, PL, CRO,FI
2	cryotechnics - poultry (roosters)	Jaana?	FI, PL, DE, HU, NL, FR
3	cryotechnics- small ruminants - II	Jane?	SE, DE, CRO, FR,FI, PL
4	AHA for genomic data	AnneMieke	NL, PL; DE,FI