

LIVESTOCK BIODIVERSITY

COUNCIL REGULATION (EC) No 870/2004



EURECA – GLOBALDIV Workshop

Rome, 05-06 May

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**European Commission – Directorate General for Agriculture and Rural Development
Unit H.1. Environment, GMOs and genetic resources**

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1. INTRODUCTION

Genetic resources in the Commission services

DG AGRI: Council Regulation (EC) No 870/2004 and Rural Development Policy (CAP)

DG AIDCO: Specific programmes/projects in developing countries

DG DEV: FAO - CGRFA and ITPGRFA (coordination)

DG ENV: CBD - Access and Benefit Sharing
Invasive Alien Species and LIFE+

DG MARE: Aquatic resources and Fishing policy

DG SANCO: Zootechnics and seeds EU legislation, plant and animal health, CGRFA, ITPGRFA (negotiations)

DG MARKT: Market policy

DG TRADE: Trade policy

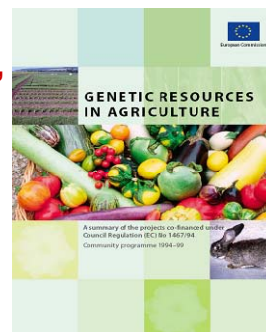
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HISTORICAL BACKGROUND

**First Community Programme based on
COUNCIL REGULATION (EC) No 1467/1994 on genetic
resources in agriculture for the period 1994-99**

- ➔ 21 co-financed projects: 17 plant, 4 animal
- ➔ **4 animal projects: Cattle, farm animals, pigs and rabbits**

**GENRES brochure: outcome of
20 co-funded projects under former
Council Regulation (EC) N° 1467/1994**



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COUNCIL REGULATION (EC) No 870/2004

Key objectives

- ➔ **Establishing a 2nd Community programme (2006-2011)**
- ➔ ***In Situ and ex situ* conservation, sustainable use of genetic resources in agriculture in EU and international context**
- ➔ **Microbial, animal and plant genetic resources which are or could be of use in agriculture (actual or potential value for agriculture) within the territory of the Community**
- ➔ **Complementarity with activities eligible under:**
 - The Council Regulation on Rural Development
 - The Framework Programmes of the European Community for RTD

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Type of actions

1. Targeted actions

- a) Actions promoting *ex situ* and *in situ* conservation
- b) European decentralised web-based inventory of genetic resources conserved *in situ*
- c) European decentralised web-based inventory of the *ex situ* collections
- d) Actions promoting regular exchanges of technical and scientific information.

2. Concerted actions

- ▶ Improve the co-ordination of actions and programmes on genetic resources

Targeted actions (a) promoting *ex situ* and *in situ* conservation, and concerted actions, shall be transnational.

3. Accompanying actions

- ▶ Information, dissemination and advisory actions.

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2. ANIMAL GENETIC RESOURCES IN COUNCIL REGULATION (EC) N°870/2004

ANNEX I on the Community Programme

ELIGIBLE ACTIONS AND AREAS, Item 4.3 Animal genetic resources

- ▶ Establish a **European network of national inventories** of animal genetic resources ex situ and in situ/on-farm...and linked to the FAO/DAD-IS system.
- ▶ Develop **European criteria to identify the national priorities** for sustainable conservation and utilisation of Animal Genetic Resources and related international cooperation.
- ▶ Establish **European cryo-conserves** for animal genetic resources.
- ▶ **Characterise and evaluate animal genetic resources** (species and breeds) used or potentially useful for food and agriculture.

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- ▶ Establish a standardised **European performance testing regime** for animal genetic resources in agriculture
- ▶ Establish a **European-wide network of 'Ark farms'**, rescue-stations and farm animal parks for endangered European farm animal breed.
- ▶ Develop **cross-national breeding programmes** for endangered breeds and populations.
- ▶ Develop **strategies supporting local breeds...and promoting the utilisation of under-utilised animal genetic resources** that could be of interest on a European level.

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3. Actions co-funded under Council Regulation (EC) N°870/2004

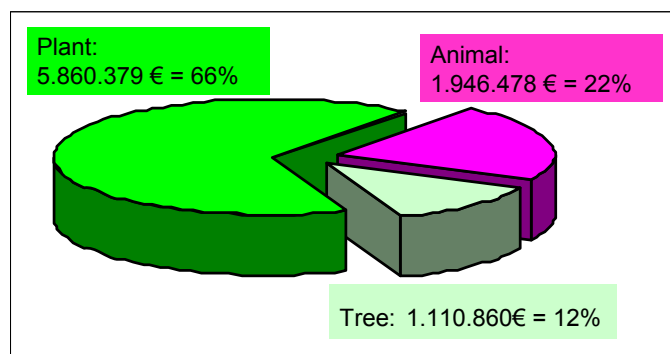
► 12 plant genetic resources (including 2 for trees)

► 5 animal resources 29% of the total nb of the actions
22% of the total EU contribution

	Subject	Title of project	Co-ordinator
012	Regional Cattle Breeds	Towards self-sustainable European regional cattle breed (EURECA)	Stichting Dienst Landbouwkundig Onderzoek (DLO), Costerweg 50, 6701 BH Wageningen, The Netherlands
020	Animal Gene Bank Databases	An integrated network of decentralised country biodiversity and genebank databases (EFABIS)	European Association for Animal Protection (EAAP), Via G.Tomassetti 3 A/1, 00161 Rome, Italy
040	Sheep	Heritagesheep	The University of York (UoY), York YO10 5DD, United Kingdom
066	Rare breeds	European livestock breeds ark and rescue net (ELBARN)	Stiftung Europäisches Naturerbe (EURONATUR), Konstanzer Str. 22, 78315 Radolfzell, Germany
067	Livestock biodiversity	A global view of livestock biodiversity and conservation (GLOBALDIV)	Universita' Cattolica del Saro Cuore (UCSC), Largo A.Gemelli 1, 29100 Milan, Italy

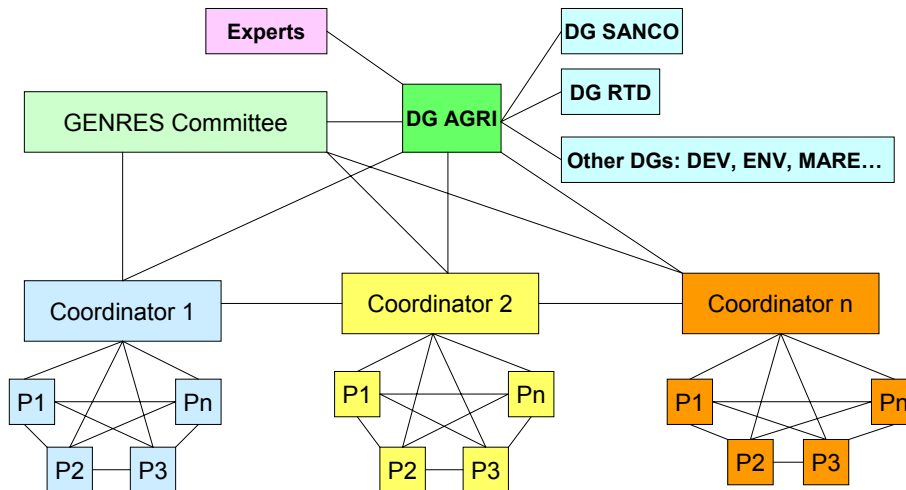
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Total EU contribution by sector



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Relationship between the main actors for implementing the GENRES Community programme



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Implementing organisations and institutes

Located in EU Member States

Austria	4
Belgium	2
Bulgaria	1
Cyprus	2
Czech Republic	5
Denmark	3
Estonia	4
Finland	3
France	17
Germany	14
Greece	10
Hungary	3
Ireland	2

Italy	32
Latvia	1
Lithuania	3
Poland	6
Portugal	4
Romania	2
Slovakia	3
Slovenia	6
Spain	11
Sweden	5
The Netherlands	6
United Kingdom	10

Total 159

Located outside EU

Azerbaijan	2
Brazil	1
Croatia	1
Egypt	1
Georgia	4
Iceland	1
Kenya	1
Moldavia	1
Morocco	1
Norway	1
Switzerland	4
Turkey	1

Total 19

Total number of organisations and institutes: **178**

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Number of countries involved in the 17 actions

Number of Member States	25 *
Number of non EU countries	12
Total number of countries	37

* All EU Member States except Luxembourg and Malta

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4. MANAGEMENT OF GENRES ACTIONS

- **Grant agreement: Rules of the to be respected**
- **Sound financial management: see Frequently Asked Questions (FAQ)**
- **Financial and technical reports in due time**
- **Dialogue coordinators ↔ Commission**
- **Publicity and dissemination of the results of the projects**

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5. THE COMMON AGRICULTURE POLICY

Rural Development Policy Council Regulation (EC) No 1698/2005

Rural Development Programmes (RDPS) for 2007- 2013: 96,3 billion €

Four strategic axes:

Axis 1: Increase the competitiveness of the agricultural and forestry sector

Axis 2: Improving the environment and the countryside with specific focus on biodiversity, organic farming, high nature value farmland, water and climate change (42,5 b €)

Axis 3: Improving the quality of life in rural areas and encouraging diversification of the rural economy

Axis 4: Leader approach

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In Axis 2

► Agri- environment payments to rear farm animals of local endangered breeds and to preserve threatened plant genetic resources: Articles 39(1) to 39(4) of Council Regulation (EC) No 1698/2005.

Articles 39(1) - 39(4): In 2008, 0,013% (15,7 m€) of the total budget for agri-environment (1,2b€).

► New opportunities offered at national and regional level for specific support for the conservation of genetic resources in agriculture: Article 39(5) of Council Regulation (EC) No1698/2005.

Articles 39(5): In 2008, 0,008% (10 m€) of the total budget for agri-environment (1,2b€).

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Using RDP specific support for the conservation of animal genetic resources

Some examples

Greece

- Objectives: Conservation of genetic resources in livestock farming for promoting the appropriate genetic material in each region for the reinforcement of the livestock sector.
- Beneficiaries: Competent bodies and support structures for breeding programme.
- Support: may cover the administrative cost of book keeping (up to 100%)..., and the cost of dissemination of information.

Hungary

- Objectives: Preservation of genetic resources in agriculture: on farm (animal species) and ex-situ, supporting the maintenance of gene banks etc...
Gene preservation assistance.
- Beneficiaries: farmers and competent bodies.

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Better use of opportunities offered by:

- ▶ Agri- environment payments **to rear farm animals of local endangered breeds** and
- ▶ Specific support **for the conservation of genetic resources in agriculture**

European Network for Rural Development:

<http://enrd.ec.europa.eu/>

National contact points for RDPs:

http://enrd.ec.europa.eu/whos-who/managing-authorities/en/managing-authorities_home_en.cfm

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6. OTHER EU FINANCIAL INSTRUMENTS

6.1 The Framework Programmes for research activities

Animal Genetics/Genomics in FP6 – examples



•Network of Excellence

•13 partners

•Genomics of host pathogen interactions in cattle, pigs, poultry, salmon, sheep

•www.eadgene.info



•Integrated Project

•33 partners

•Fundamental genomics in pig, cattle and poultry, including pig genome sequencing

•www.sabre-eu.eu



•Technology platform

•Farm animal breeding and reproduction

•75 signatories

•www.fabretp.org

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The 7th EU Framework Programme (FP7) for 2007-2013

Specific Programmes: Total 53 billion €



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FP7 Programme

Cooperation – Collaborative research

10 Themes

EC contribution 2007-2013

	(b€)
1. Health	6.050
2. Food, agriculture and fisheries, and biotechnology (FAB)	1.935
3. Information and communication technologies	9.110
4. Nanosciences, nanotechnologies, materials and new production technologies	3.500
5. Energy	2.300
6. Environment (including climate change)	1.900
7. Transport (including aeronautics)	4.180
8. Socio-economic sciences and the humanities 610	
9. Space	1.430
10. Security	1.350
• + Euratom: Fusion energy research, nuclear fission and radiation protection	

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FP7 Theme 2: Broad scope

Food, Agriculture and Fisheries, and Biotechnology
Knowledge-Based Bio-Economy (KBBE)



KBBE - Activity 2.1
Sustainable production and management of biological resources from land, forest and aquatic environments



KBBE - Activity 2.2
“Fork to farm”: Food, health and well being



KBBE - Activity 2.3
Life sciences, biotechnology and biochemistry for sustainable non-food products and processes

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Call FP7-KBBE-2009-3

Activity 2.1, Sustainable production

2.1.1 Enabling research

KBBE-2009-1-1-03: Optimisation of methods to maintain farm animal biodiversity

- Genomic tools for the measurement [...] of biodiversity in farm animal species.
- Methods for the management of biodiversity in breeding programmes.
- Strategies to provide cost-effective *in vivo* or *in vitro* conservation of endangered genetic resources.
- Methods, tools and models to assist both industry and policy makers.
- Supporting local breeds and extensive farming, in particular in Africa. Training component to increase the research capacities in the participating developing countries.

Project selected: NEXTGEN (started 1 April 2010)

EC contribution: 3 m€ Total: 3,7 m€. Coordinator FR; 4 MS+ 5 Non EU countries (including Africa)

KBBE-2009-1-1-02: Mining genomics information of small ruminants to generate understanding of the genetic basis of phenotypes important to sustainable production and health

- Exploitation of the genome sequence in relation to traits important for health and sustainable production.

Project selected: 3SR (due to start 1 May 2010)

EC contribution: 3 m€ Total: 5,1 m€. Coordinator FR; 7 MS + 4 non EU countries

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► Web sites of DG RTD

www.cordis.europa.eu/fp7/kbbe/home_en.htm

EU research: www.europa.eu.int/comm/research

Sixth Framework Programme:

www.cordis.lu/fp6/home.html

www.cordis.lu/fp6/food.html

Seventh Framework Programme:

www.cordis.europa.eu/fp7/home.html

Information requests, Europe Direct

www.ec.europa.eu/research/index.pg=enquiries

DG Research Site:

www.europa.eu.int/comm/research/index_en.html

RTD info magazine:

www.europa.eu.int/comm/research/rtdinfo/

6.2 LIFE Biodiversity and Nature

► Web site of DG ENV <http://ec.europa.eu/environment/life/>

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7. COMMUNICATION POLICY

- 17 actions: meetings, workshops, on spot missions...
- Develop synergies between animal GENRES actions having complementary objectives and other initiatives (coordinators)
- In future improve communication between scientific community and national authorities: GENRES, RDPs, RTD Committees
- Roles of the GENRES Committee

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8. COORDINATOR'S WEB SITES AND WEB SITE OF DG AGRI

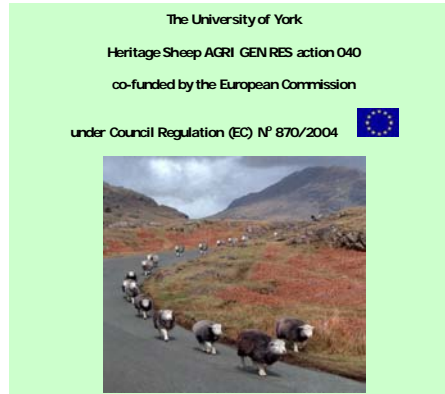
COORDINATOR'S WEB SITES

- References to the EU support and flag
- Quality of the information
- Databases to be maintained and up-dated
- Content adapted to a large audience

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Fact sheet for Heritage sheep

<http://www.heritagesheep.eu/Heritagesheep.pdf>



- Use as a model for the dissemination of the final results of the actions on coordinator's web sites

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THE COORDINATOR'S WEB SITES

- ANIMAL RESOURCES

012: Cattle <http://www.regionalcattlebreeds.eu/>

020: Farm animals <http://efabis.tzv.fal.de/cgi-bin/index.cgi>

040: Sheep <http://www.heritagesheep.eu/>

066: Livestock breeds <http://www.euronatur.org/?elbarn>

067: Livestock
Globalview <http://www.globaldiv.eu/>

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WEB SITE OF DG AGRI

Genetic resources in agriculture:

http://ec.europa.eu/agriculture/genetic-resources/index_en.htm



AGRI- RESGEN@ec.europa.eu

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9. FUTURE PERSPECTIVE OF THE COMMUNITY PROGRAMME

- Closure of the 17 GENRES actions (2011-2012)
 - ▶ Output of the final results of the 17 GENRES actions: a **leaflet** is under preparation
- **Evaluation of the Community programme** by independent experts : Article 14 of Council Regulation (EC) N°870/2004
- What are the **needs** for promoting animal genetic resources at regional, national and EU level?
- **Third Community programme ?**
 - ▶ **Political decision**

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Thank you for your attention

