

# Protection and development of Hungarian animal breeding traditions at HáGK



**Szalay István and colleagues**

HáGK, Gödöllő

# Europe

## The Carpathian basin



# Brief History of Gödöllő Institutions for Animal Breeding and Research





# Hungarian Royal Poultry Breeding Farm (established in 1897)



# Hungarian Royal Apiculture Centre (established in 1899)





# INSTITUTIONS FOR ANIMAL BREEDING AND RESEARCH IN GÖDÖLLŐ

1950 *Research Institute for Animal Breeding*

1952 *Research Institute for Small Animal Breeding*

1980 *Research Centre for Animal Breeding and Nutrition*

1992 *Institute for Small Animal Research (KÁTKI)*

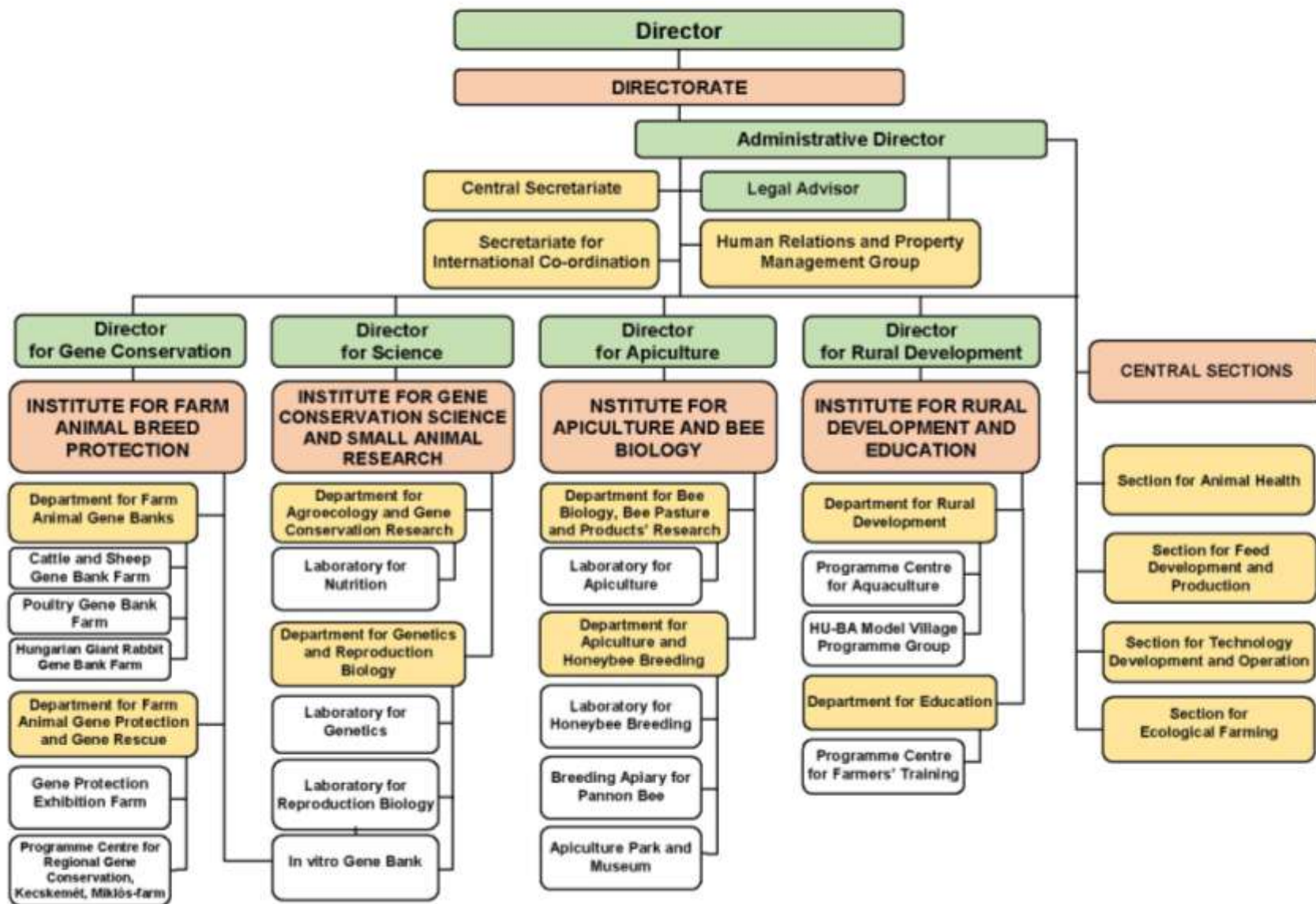
2006 *Research Institute for Animal Breeding and Nutrition (ÁTK)*

2010 *Institute for Small Animal Research and Co-ordination Centre for Gene Conservation (KÁTKI)*

**2013 Research Centre for farm Animal Gene Conservation (HáGK)**



# ORGANISATIONAL STRUCTURE OF THE RESEARCH CENTRE FOR FARM ANIMAL GENE CONSERVATION (HáGK)



# HáGK Institutes and their main activities





# Institute for Farm Animal Breed Protection

- Conservation of farm animal and native dog breeds, gene protection and gene rescue programmes
- Developing gene conservation methods
- Collecting and maintaining in vivo gene banks of traditional Hungarian farm animals



# Institute for Gene Conservation Science and Small Animal Research

- Basic research in molecular genetics and reproduction biology
- Research, development and innovation in small animal breeding, gene conservation and organic farming
- Collecting and maintaining in vitro gene banks
- International co-operations in research and development





# Institute for Apiculture and Bee Biology

- Gene conservation and breeding of Pannon bee
- Qualification and production studies of honey and bee products
- Apicultural, bee-biology and bee-health research, development and innovation
- Education and technical training in apiculture and bee-biology



# Institute for Rural Development and Education

- Elaboration, co-ordination and implementation of rural development and village programmes, related to breeding and use of local, indigenous breeds
- Preparation, edition and dissemination of information materials for rural programmes
- Education and training in rural development and the use of local, indigenous breeds





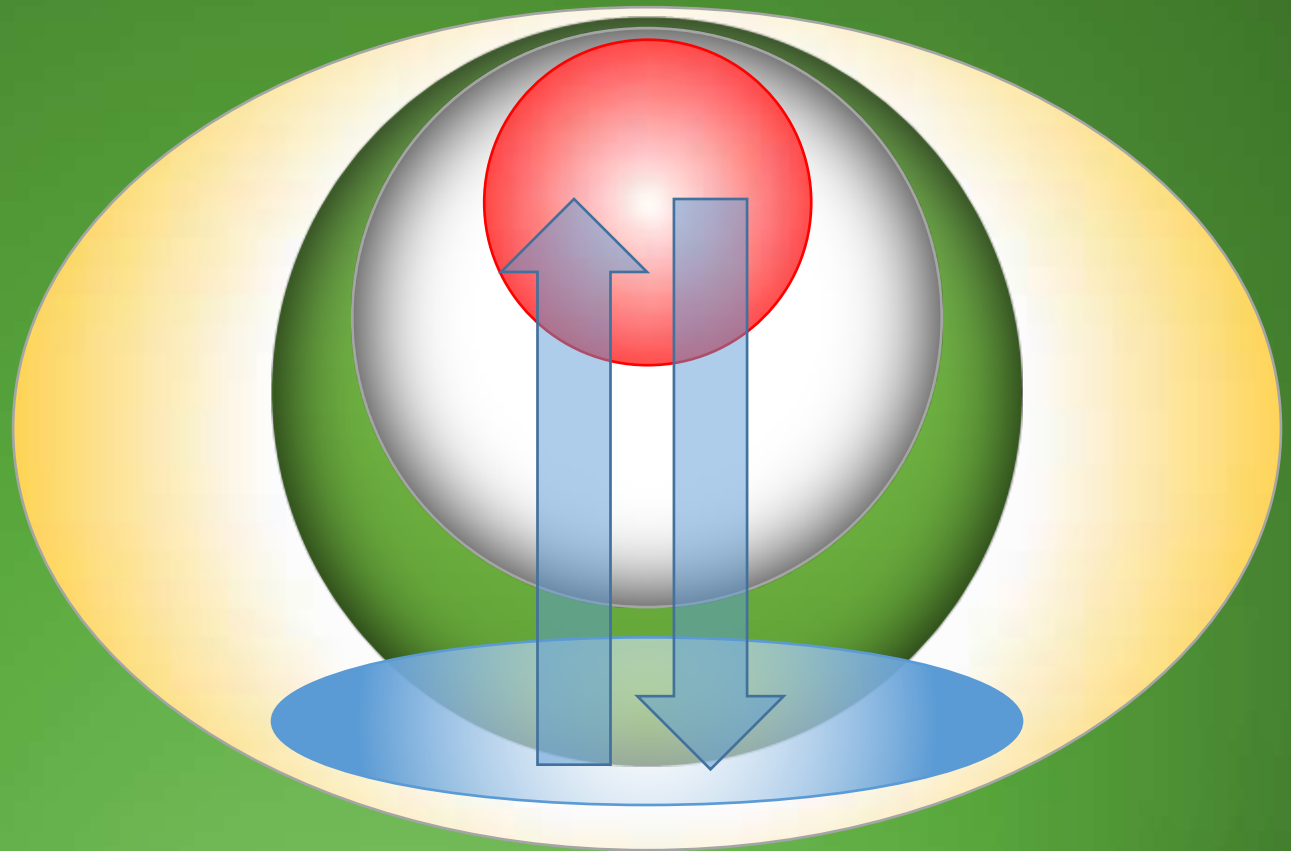
# Protection System of Farm Animal Genetic Resources

**Gene bank**

**Gene  
protection**

**Gene  
conservation**

**Gene rescue-  
Breed rescue**



# Traditional Hungarian Farm Animal Breeds

## Conserved by HáGK: **small animal breeds**





# Traditional Hungarian Farm Animal Breeds

## Conserved by HáGK: **local livestock breeds**





# Traditional Hungarian Farm Animal Breeds

## Conserved by HáGK: **local dog breeds**





# Traditional Hungarian Farm Animal Breeds

## Conserved by HáGK: **local farmed fish species**

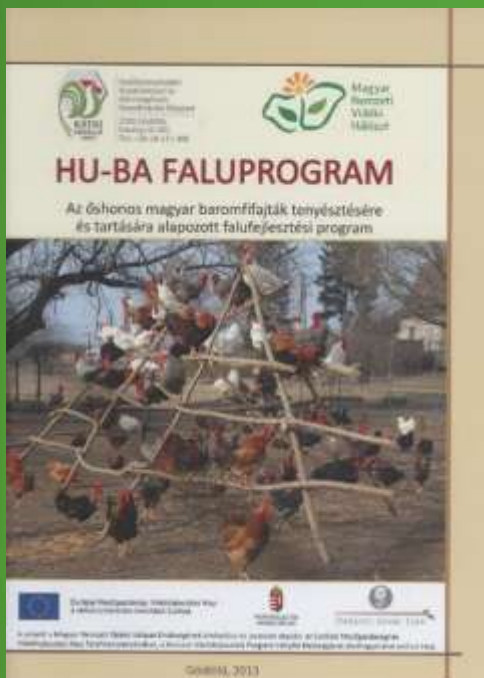


# Poultry Gene Conservation and utilisation

Hungarikum  
Baromfitermékek

**HU-BA**

**Traditional Hungarian  
poultry products**





# Rabbit gene conservation and utilization: The Relax Rabbit programme



# Farm park and gene rescue of traditional Hungarian farm animal breeds in HáGK





# Gene rescue of traditional farm animal breeds in the Carpathian Basin



A Géngyűrű

The Gene Ring





# Adaptation studies of Hungarian farm animal genetic resources in Southeast Asia

- Guinea fowl
- Goose
- Duck
- Chicken
- Turkey
- Rabbit



# Non governmental organisations (NGOs) for small animal gene conservation in Hungary



Association of Hungarian Small Animal Breeders for Gene Conservation



National Association of Hungarian Honeybee Breeders



National Association of Hungarian Giant Rabbit Breeders



# Proposals for co-operation with institutions abroad

- PhD courses and technical training
- In vivo and in vitro gene conservation of local breeds
- Animal breeding and conservation research, co-operations in development, adaptation studies
- Co-operation in apiculture and aquaculture
- Trilateral co-operations in Europe and in Asia
- Organisation of professional co-operations with other Hungarian institutions







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Login

Conservation, research and development of our national values implied in our traditional farm animals are the hereditary rights and obligations of ours



INTRODUCTION

MAIN UNITS

PROFESSIONAL STAFF

OLD HUNGARIAN FARM  
ANIMAL BREEDS

PROJECTS

PUBLICATIONS



CONTACT

EVENTS

NEWS

PHOTO GALLERY



News

In vitro Gene Bank of Hungarian indigenous

[www.genmegorzes.hu](http://www.genmegorzes.hu)

[www.geneconservation.hu](http://www.geneconservation.hu)

SUPERVISING AUTHORITY



WEBSITE OF  
HUNGARIAN  
GOVERNMENT

Ministry of Agriculture

PROFESSIONAL PARTNERS



The electronic version of the Hungarian Simmental memory game on native Hungarian domestic animal breeds has been completed. It can be downloaded for free.

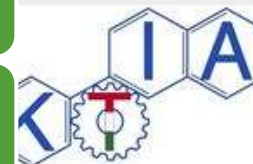
[Read more](#)

Major projects

**CRYOBIRD**

Development of a cryopreservation system for the conservation of poultry diversity

[www.katki.hu/cryobird](http://www.katki.hu/cryobird)



[www.geneconservation.hu/kti](http://www.geneconservation.hu/kti)

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Thank you for your kind  
attention and your visit at HáGK

