

# COLLECTION AND CONSERVATION OF PLANT GENETIC RESOURCES FOR FOOD AND AGRICULTURE IN ESTONIA

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## Introduction

Plant genetic resources for food and agriculture means any genetic material of plant origin of actual or potential value for mankind.

Collection and conservation of plant genetic resources shall secure them for further utilization.

Plant genetic resources for food and agriculture include

- Commercial and local varieties
- Landraces
- Wild material
- Breeding lines

## Main activities

- Collection, conservation and sustainable use of plant genetic resources of Estonian origin
- Characterization, evaluation and documentation of collections
- Regional and international cooperation

Estonian National Programme "Collection and conservation of plant genetic resources for food and agriculture in 2007-2013" governed by the Ministry of Agriculture is accomplished by following institutions



### Genebank of Jõgeva Plant Breeding Institute

<http://www.sordiaretus.ee>

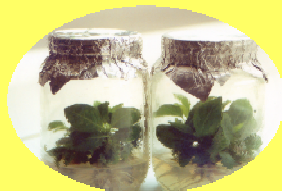
- Long-term seed preservation of cereals, vegetables, forage grasses and legumes
- Collecting missions of forage ecotypes from Estonian (semi)natural/old plant communities



### Polli Horticultural Research Centre of the Estonian University of Life Sciences

<http://polli.emu.ee>

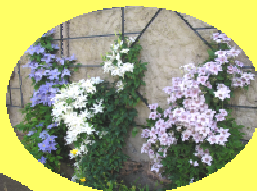
- Field collections of fruit trees and berry plants



### Department of Plant Biotechnology EVIKA of Estonian Research Institute of Agriculture

<http://www.evika.org>

- *In vitro* preservation of agricultural and horticultural crops



### Botanical Garden of the University of Tartu

<http://www.ut.ee/botaed>

- Field collections of ornamentals, medicinal and aromatic plant species
- Coordination of activities of private collectors and breeders



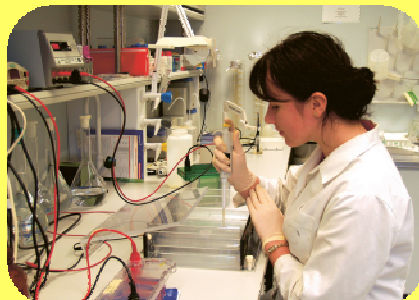
### Institute of Gene Technology of Tallinn University of Technology

<http://geen.ttu.ee>

- Monosomic aneuploid analysis and molecular-genetic techniques in characterization of preserved disease resistant wheat genotypes



Evaluation of potato collection at the Department of Plant Biotechnology EVIKA



Identification of wheat genotypes at the Department of Gene Technology of Tallinn Technical University



Collecting the seeds in abandoned grassland by forage crop breeders of the Jõgeva Plant Breeding Institute