

# Status of the art on *Lathyrus sp.*

## Bulgarian Collections



**SMARTLEG Meeting**  
**10 – 11 April 2019, Bucharest, Romania**

**Presenter: Sofiya Petrova, PhD**



**INSTITUTE OF PLANT  
GENETIC RESOURCES  
“K. Malkov” - Sadovo  
Director: assoc. prof. Katia  
Uzundzalieva  
E-mail: ipgr\_sadovo@abv.bg**



**IPGR-Sadovo** is a member of the Agricultural Academy at the Ministry of Agriculture in Bulgaria. Agricultural Academy is an academic representative at the country administration as well at the international level for all questions relating to research in agricultural institutes.

**\*\* Department of Plant Genetic Resources  
Head: Assoc. prof. Tzvetelina Stoilova PhD**

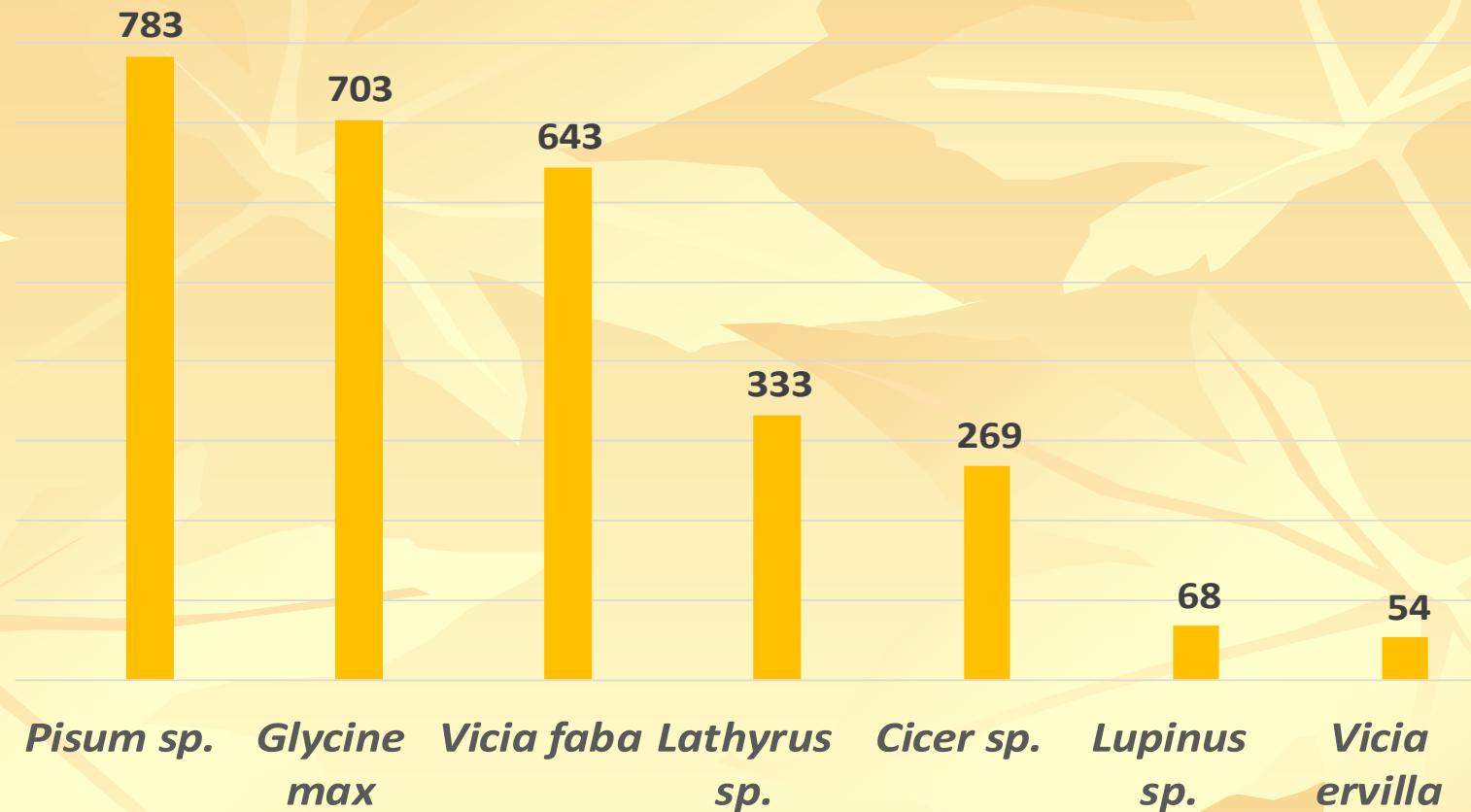
- Collecting, studying and enriching the collections of cereals, grain legumes, vegetables, ornamental and medicinal species and other.
- Maintaining collections of rare plant species in Botanical garden.

**\*\* Department of Plant Breeding and Genetic  
Head: Assoc. prof. Zlatina Uhr PhD**

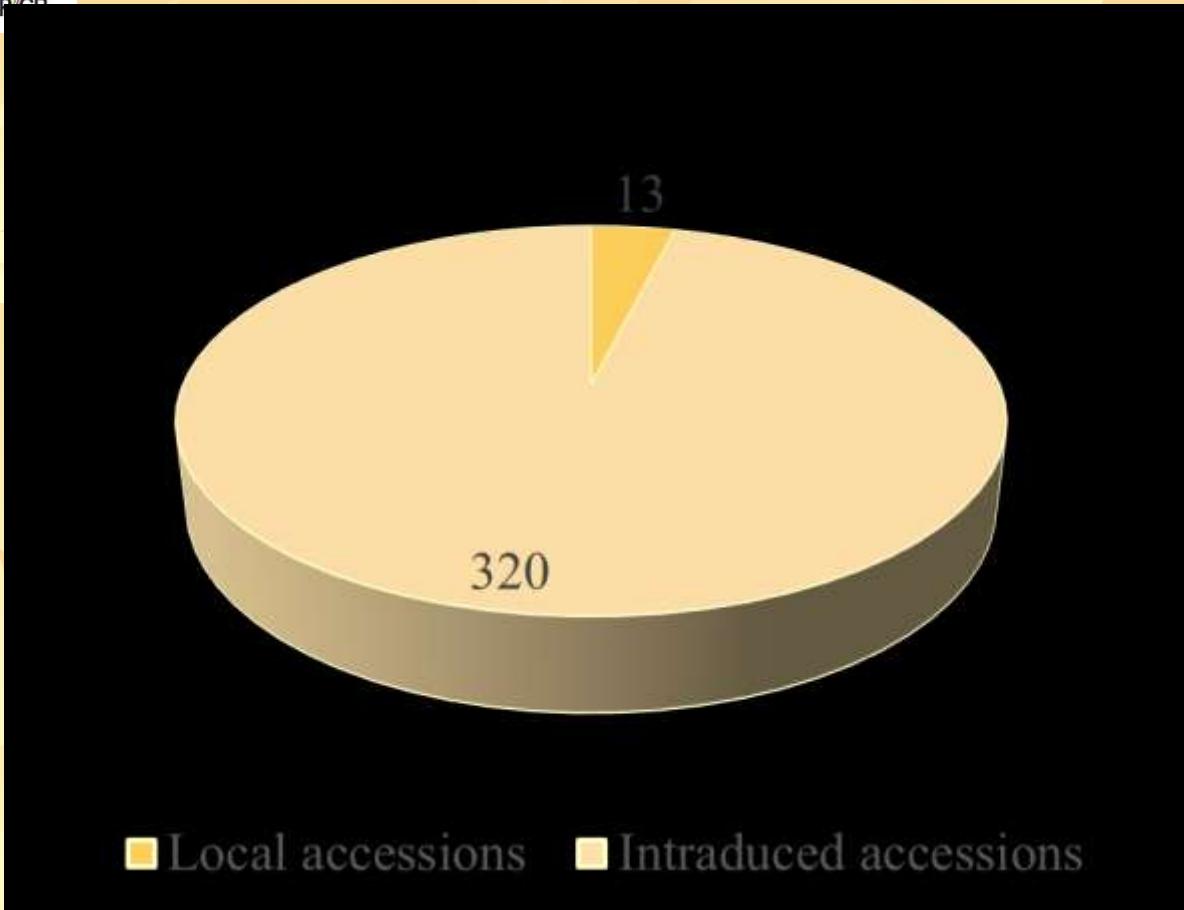
- Selection and investigation of new high-yielding and high-quality varieties of common winter wheat.
- Introduction, selection and agrotechnologies of sesame and peanuts.
- Selection, introduction, study of resistance to economically important diseases, grain quality of rice.



# Long-term conservation of some grain legume collections in Bulgarian Plant GenBank

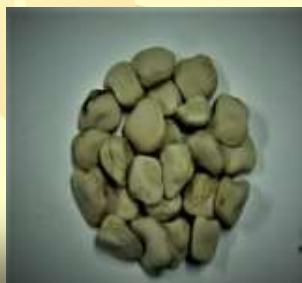
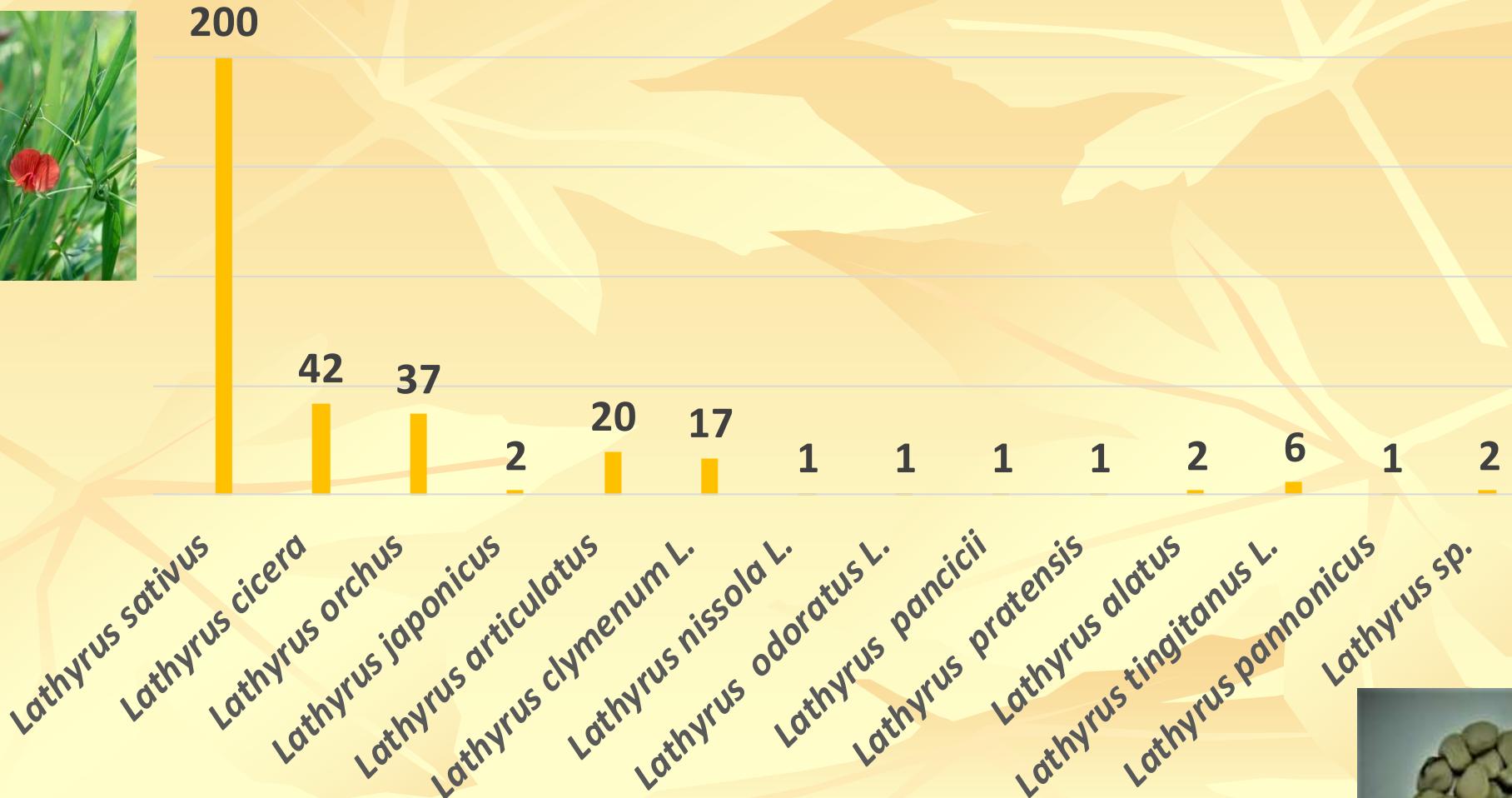


# Status of the Bulgarian *Lathyrus* sp. Collection

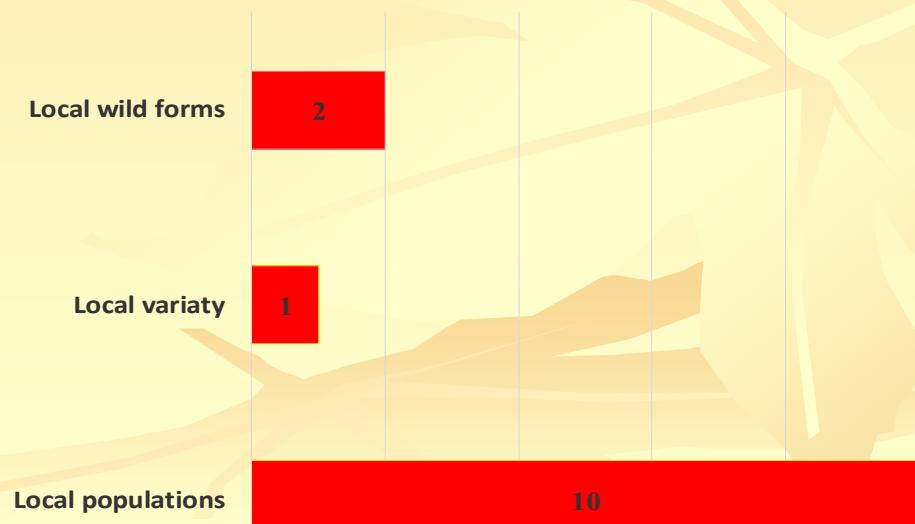




# Species composition of the *Lathyrus* sp. collection

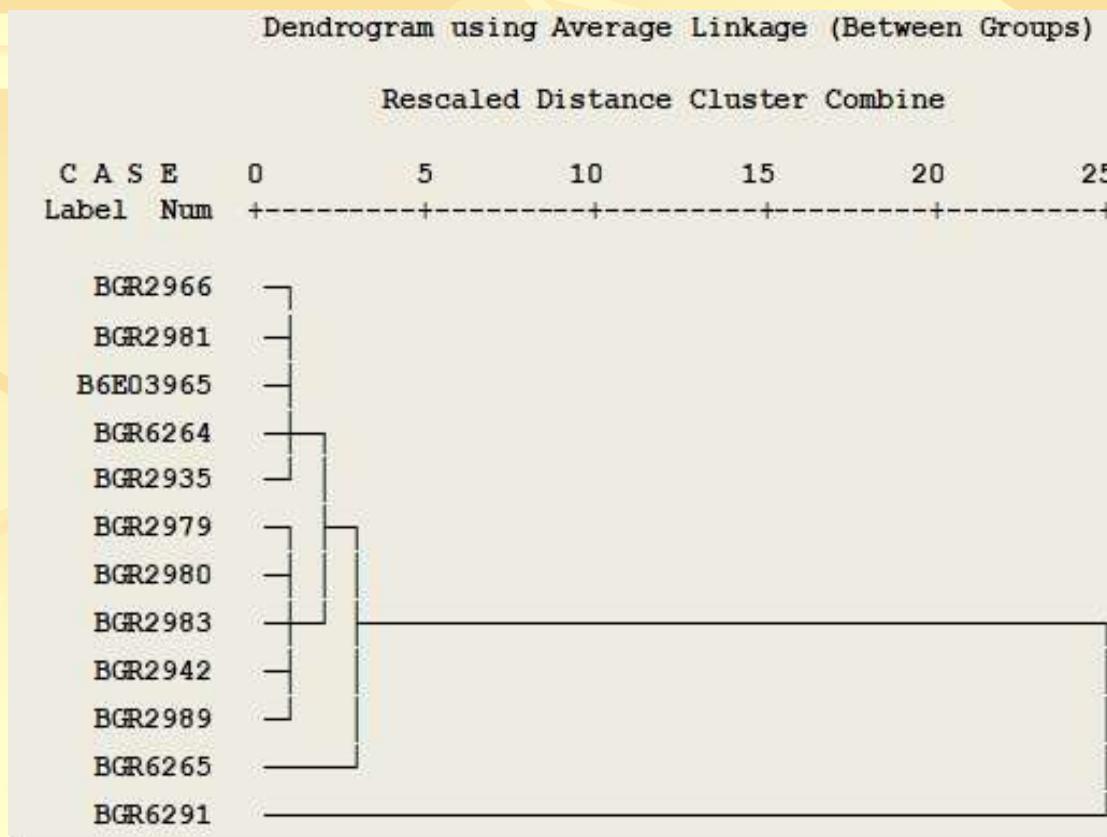


# Species composition of local accessions



## Agrobiological study of 12 *Lathyrus* sp. accessions (2016-2017)

Grouping of *Lathyrus* sp. accessions based on hierarchical cluster analysis.



*Lathyrus tingitanus L.*



*Lathyrus nissola L.*

In the Bulgarian flora the genus *Lathyrus* is represented by 30 species, related to 9 sections (*Lathyrus*, *Orobus*, *Lathyrostylis*, *Pratensis*, *Linearicarpus*, *Orobastrum*, *Viciopsis*, *Aphaca*, *Nissolia*).

List of some *Lathyrus* species (conservation status and threats):

*Lathyrus laxiflorus* - NOT protected species in Bulgaria

*Lathyrus niger* - NOT protected species in Bulgaria

*Lathyrus saxatilis* - PROTECTED species in Bulgaria

*Lathyrus sphaericus* - NOT protected species in Bulgaria

*Lathyrus sylvestris* - NOT protected species in Bulgaria

*Lathyrus palustris* - PROTECTED species in Bulgaria

*Lathyrus panniculatus* - PROTECTED species in Bulgaria

*Lathyrus filiformis* – new species for Bulgaria flora



A scenic mountain landscape featuring a large, rugged mountain range in the background under a clear blue sky. In the middle ground, a small, calm lake is nestled among green hills. The foreground is filled with a lush field of tall green grass and several bright orange wildflowers, likely poppies, scattered throughout.

**Thank you for your attention!**