



Agricultural Institute of Slovenia

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# **National Report Slovenia**

**5<sup>th</sup> GLWG, May 2013**

**Novi Sad**

# GL AIS Inventory

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**1064 accessions (*P. vulgaris*)**

**52 accessions (*P. coccineus*)**

**41 accessions (*V. faba*)**

**42 accessions (*Vicia* sp.)**

**7 other sp. accessions**



# SEELEGUMES

Sustainable preservation of indigenous South East European legumes and their traditional food and feed Products

..... we will **organize expeditions** to selected regions and check the references in existing national inventory, provide updated information on selected legume species in both wild and agricultural flora. The selected regions of Slovenia and of the territory of SEE may still be rich in plant genetic resources of grain legumes. The effective communications with local farmers requires the representation of plant genetic resources experts. That would help in the **more precise documentation of the information on landraces, on their use, and other special characteristics**. The joint collecting missions will contribute to the further development of collaboration between the national programmes.

# Evaluation of Faba bean accessions

## Bob (*Vicia faba*)

Pronađen u selu Gomiljani (blizu Trebinja) N42°42'910"; E018°18'178"; 270 m nadmorske visine, domaćinstvo Milenke i Vase Marića 19.03.2012. Sećaju se da se davno koristio kao stočna hrana i to i kao zelena (košenje i davanje stoci odmah ili kao suvo zrno); ne može da se seje s jeseni već krajem zime, u januaru, tačnije od 25.12. do 15.01., „između Božića i Novih Godina“. Ne sećaju se da se koristio za stočnu hranu. Mada su im neki pričali da je bilo i takvog boba. Koristi se kao varivo od mladih mahuna, ređe kao salata od mladog zrna, a najređe kao varivo od suvog, zrelog zrna isto kao pasulj.

**varivo od mladih mahuna** (uobičajeno jelo): Mahune treba da budu što mlađe. One se kuvaju u vreloj vodi sve dok se ne skuhaju, a onda se ocede. Obavezno se izdinstaju crni luk (Vaso), pa se dodaju mahune i još malo dinstaju zajedno. Ili svemu tome može da se doda i krompir (predhodno skuhan - Miljenka). Kad bude gotovo „izgnječka se“. Dobro je i samo i sa mesom i sa salatama.

**salata od mladog zrna** (voli ga samo domaćin Vaso): Isto se kuva u vreloj vodi, voda se prospe, pa se oljušti. Pomeša se sa maslinovim uljem, sirćetom i belim lukom. Dobro je i vruće i hladno.

**varivo od suvog, zrelog zrna** (najređe ga prave, a rado ga jedu stariji): Sprema se isto kao pasulj: Uveče se potopi u hladnu vodu, koja se ujutru odlije. Kad se prokuva i ta prva voda se prospe. Kuva se dalje sam ili sa suvim mesom, uz dodatak povrća (mrkva, peršun, luk) i obavezno zaprži.



# Evaluation of Lathyrus accessions

## Sastrica (Lathyrus sp.)

Pronađena u selu Zgonjevo (Petrovo polje, Trebinje; N42°39'11.9"; E018°19'19.8"; 285 m nadmorske visine);  
Prije II svjetskog rata sijana na velikim površinama, mijenjana u Konavlima za ulje;  
Sad se proizvodi kod manjeg broja proizvođača;  
Koristi se manje kao varivo, uglavnom kod oboljelih od dijabetesa i u tom slučaju se melje i kuva kao kafa;



# Genetic diversity of the autochthonous *Phaseolus* bean germplasm originating from five southeastern European countries

## Materials and methods

167 common bean accessions were included

- ❖ 21 from Bosnia and Herzegovina (**BA**),
- ❖ 15 from Croatia (**HR**),
- ❖ 73 from Macedonia (**MK**),
- ❖ 38 from Serbia (**RS**),
- ❖ 20 from Slovenia (**SI**).

Collected data from the amplification of **13 microsatellite loci** was used to assess the variation stored in the studied germplasm. Genetic relationships among accessions were analysed by Principal Coordinate Analysis (**PCoA**) in GenAlEx. Genetic structure of the studied accessions was assessed by Bayesian model-based clustering method in Structure.

## Conclusions

In the PCoA plot, the majority of accessions grouped into two distinct clusters, which resemble to Mesoamerican and Andean gene pools. Both clusters comprised accessions from each of the five countries. Accessions from Macedonia and Serbia were distributed evenly between the two gene pools, while the accessions from Croatia, Bosnia and Slovenia clustered predominantly within Andean gene pool.

Figure 1: PCoA plot showing genetic relationships among 167 common bean accessions from five countries.





