## NAGREF

NATIONAL
AGRICULTURAL
RESEARCH FOUNDATION
P.O. Box 60458 57001 Thermi GREECE

Photini Mylona

Senior Researcher
E-mail: phmylona@nagref.gr


## SEELEGUMES

Large plant biodiversity of Greece
Q Project timeframe - 24 months
thus we have sought to

Cicer arietinum


Ex situ conservation of Cicer accessions as seed samples

In situ conservation is undertaken mainly by traditional farmers

Current trends in agriculture and nutrition are seeking for

- well-adapted cultivars in view of the forthcoming climate change
- high added value products
- chickpea is an important source of nutrients for human diet particularly for sensitive groups
an excellent alternative to soybean for livestock feed

Cicer arietinum collection of seed samples

| A/A | Cultivar Name | Location of origin |  |
| :--- | :--- | :--- | :--- |
| 1 | Amorgos | NAGREF |  |
| 2 | Andros |  |  |
| 3 | Gavdos |  |  |
| 4 | Gravia |  |  |
| 5 | Evros | Thiva |  |
| 6 | Kerinia |  |  |
| 7 | M14719 |  |  |
| 8 | Serifos |  |  |
| 9 | Sifnos |  |  |
| 10 | E210 |  |  |
| 11 | Local land races | all over Greece |  |
| 12 | 49 accessions |  |  |
|  |  |  |  |

Map of Greece indicating origin of Cicer arietinum collection of local landraces


## Experimental Plan

Morphological characterization of C. arietinum accessions

Growth of individual plants in greenhouse $\rightarrow$ underway

Molecular characterization of individual plants $\rightarrow$ underway

Assessment of genetic diversity of accessions

## Molecular characterization of Cicer accessions

## Isolation of genomic DNA

Extraction of gDNA has been performed from individual samples of selected accessions. Quality and quantity of isolated gDNA has been assessed spectrophotometrically.


## Selection of molecular markers



PCR analysis of gDNA


Cultivars are as follows:
2=Andros
3= Gavdos
4= Gravia
5= Evros
7= Kerinia
11= E210

## Thank you !

## See you all in Thessaloniki, Greece!

