









Lucía De la Rosa

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ForEVA – Fostering the need of implementation of the ECPGR's European Evaluation Network (EVA) on Grain legumes

10-11 October 2023, Bucharest, Romania



The Spanish National Plant Genetic Resources Center The National Institute for Agricultural and Food Research and Technology (INIA) The Spanish National Research Council (CSIC)



Alcalá de Henares, Madrid (Central Spain)

Objectives:

- Conservation of seed base collection of the National PGRFA Network. (article 50, Law 30/2006)
- Management and publication of the National Inventory of the National Network (article 50, Law 30/2006)
- Coordination of the National Network and International activities (European Cooperative Programme for Plant Genetic Resources....)
- Support and Assessment of National Action Plans for PGRFA
- Conservation and characterization of active collections: cereals, grain legumes and industrial crops





The Spanish National Plant Genetic **Resources Center**



INCREASE: Intelligent collections of Food Legumes Genetic Resources for European Agrofood **Systems**

GREVISA: Genetic Resources of Vicia sativa for a Sustainable Agriculture











INTERNAL PROJECT

Conservation and documentation activites of germplasm collections





RESUENA: Using sensors to support the introduction of legumes for improving the sustainability of Spanish rotation by enhancing efficiency of nitrogen and water use







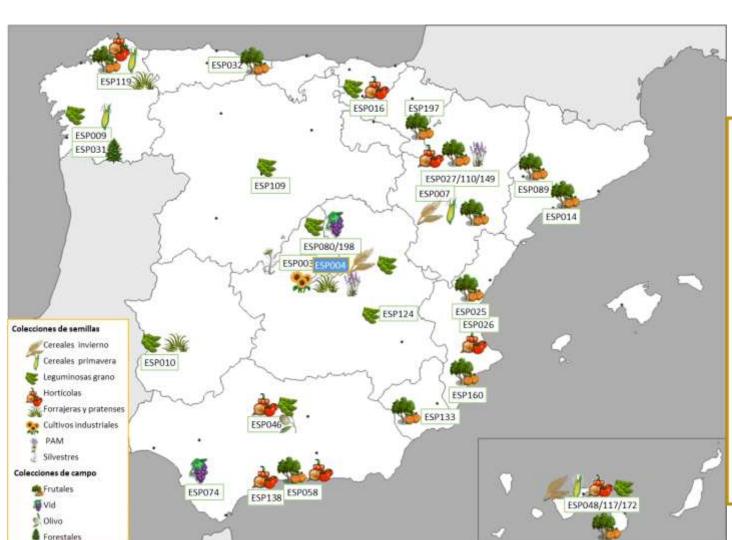
Spanish Legumes Association





Spanish PGR collections

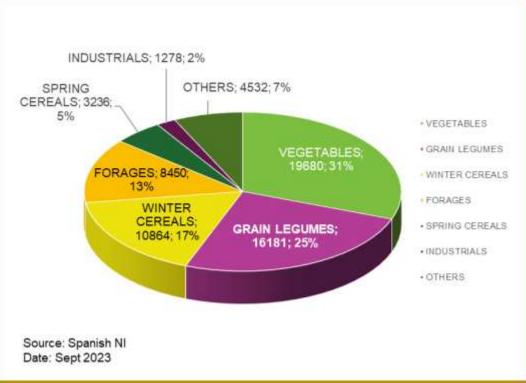




CRF Passport data: 101127 acc

EURISCO: 79949 acc

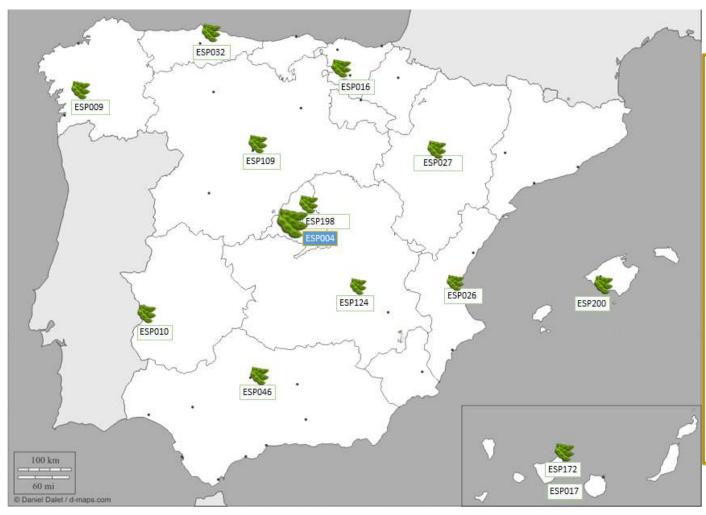
Grouped by crops



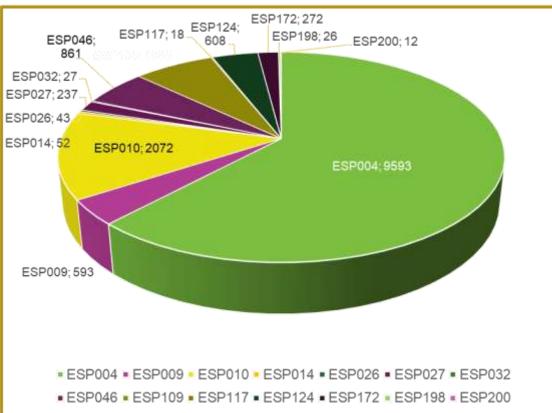


Spanish GL collections





Grouped by holding institutions

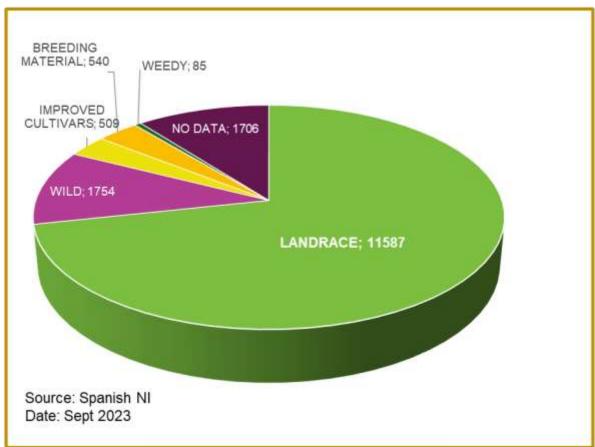




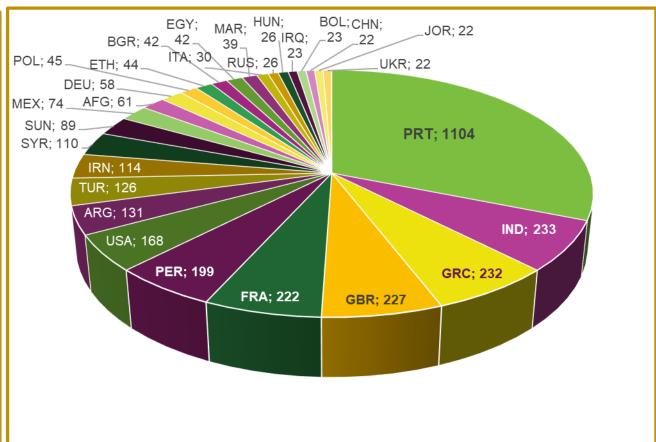
Spanish GL collections



Grouped by biological status



Grouped by country of origin

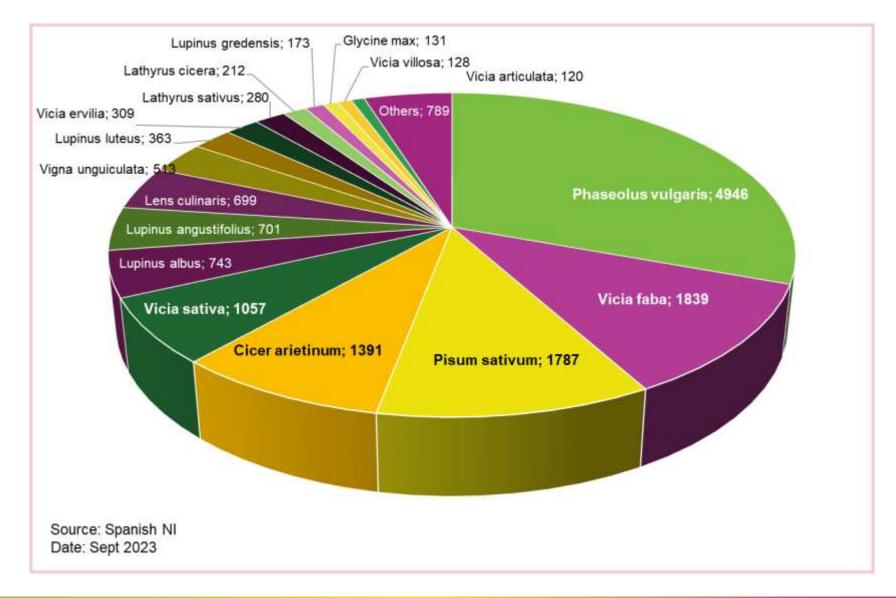




Spanish GL collections

Grouped by species



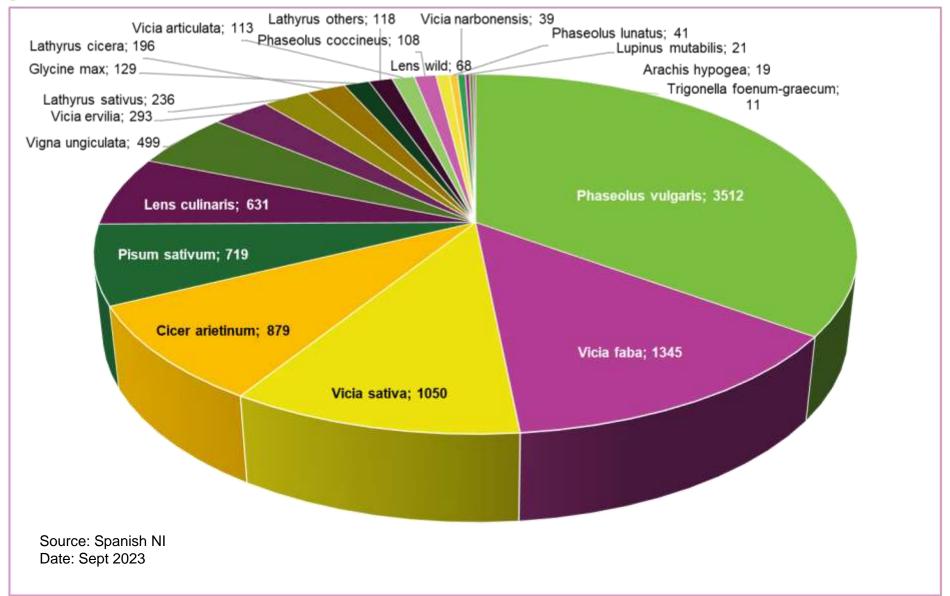




CRF GL collections

Grouped by species







CRF GL collections



- CRF current activities includes regeneration and C&E of GL
- Traditionally, we have carried out the phenotyping of this material following international descriptor lists
- Vicia sativa, molecular markers (SSR, SNP), reserve proteins, root architecture and phenotyping with traits related with drought tolerance
- Vicia ervilia, V articulata, V monantha: molecular data
- Lens culinaris and Cicer arietinum, INCREASE' Multilocation field trials
- Interesting collections of Lupins sps available in the Spanish PGR Network
- Availability of SSD lines for some species
- Spain do not have a central repository with PGR information but it is possible to get it the former web site an in the scientific literature

Materials are available under the Multilateral Systems with the SMTA.











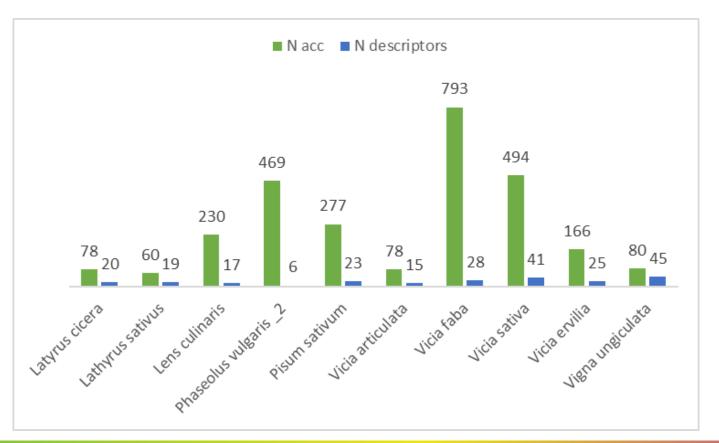




https://webx.inia.es//web_coleccionescrf/CaracterizacionCRFeng.asp













Expectations from EVA legumes

forEVA

Expectations

- To have access to a big amount of GL diversity and the possibility to compare its behaviour with local material.
- Interest focused on GL for dry lands (AGROSA: Crotalaria juncea, Onobrychis viciifolia, Pisum sativum, V. ervilia)
- Constraints
- Quantity of material needed for easy (mechanized) trials
- Lack of specialized staff
- Ways to cooperate/experience with PPP
- AGROSA SL, SECEBALSA, and other seeds companies
- PGRFA users





Thank you!

