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Institute of Plant Breeding & Genetic Resources

EUROPEPLAND– Implementing a trans-EUROpean PEPper LANDrace collection for resilient agriculture

30 October 2024, Almeria, Spain



Institute of Plant Breeding and Genetic Resources

- ❖ Part of the Hellenic Agricultural Organization-Demeter, supervised by the Greek Ministry of Rural Development and Food
- ❖ Campus: 30ha farm (Thessaloniki)
- ❖ Research targets:
 - Breeding and crop improvement
 - Preservation + evaluation + exploitation of plant genetic resources

<https://agres.elgo.gr/>



Central Campus, Thessaloniki



Gene Bank, Thessaloniki



Balkan Botanical Garden, Kilkis

Project activities on pepper

- ❖ Member of EVA Network for pepper since 2021
 - Phenotyping of germplasm collections over 3 years
- ❖ Preservation of the National Gene Bank Collection
- ❖ Genetic characterization of pepper germplasm collections using SSRs
- ❖ Genetic improvement of *Capsicum annuum* for:
 - quality,
 - disease resistance,
 - drought tolerance,
 - nutritional value (vitC, carotenoids).



IPGRB pepper landraces collection

- ~150 accessions maintained in Gene Bank
- 10 landraces from North and South of Greece (lab collection)
- 7 modern cultivars (registered at the National Catalogue of Vegetables)
- several breeding lines (lab collection)



cv Stavros



cv Mitero



Bahovou (landrace)



125_A1



Gene Bank collection
(Dr P. Ralli)



cv Florinis



cv Verias



cv P13



131_A5