

EXPLORING THE DIVERSITY OF GERMPLASM COLLECTION OF *SOLANACEAE* VEGETABLES FROM VRDS BACAU

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Vegetable Research and Development Station, Bacau

**EUROPEPLAND– Implementing a trans-EUROpean PEPper
LANDrace collection for resilient agriculture
30 October 2024, Almeria, Spain**

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About us

Conservation



Breeding

THE MAIN OBJECTIVES

Conventional and organic cultivation practices

Seed production

Modern culture technologies

Consulting, technical assistance and plan



New varieties of vegetables and flowers

Maintain the diversity and conserving the valuable genetic resources

Integrated control of diseases and pests

Seedling

Seeds

Fresh vegetables

The research activity is developed in the following laboratories



VEGETABLE SEEDS PRODUCTION
Laboratory



GENETICS, BREEDING AND CONSERVATION Laboratory



"IN VITRO" BIOTECHNOLOGY AND CULTURES Laboratory



PLANT PHYSIOLOGY
Laboratory



ORGANIC AGRICULTURE AND PLANT PROTECTION Laboratory



VEGETABLE AND FLOWER TECHNOLOGY Laboratory

PROJECT ACTIVITIES

ON PEPPER



01 ADER 1.4.4

Identification, evaluation, testing, development and validation of methods for analyzing nutrients and contaminants from usable inputs in organic agriculture

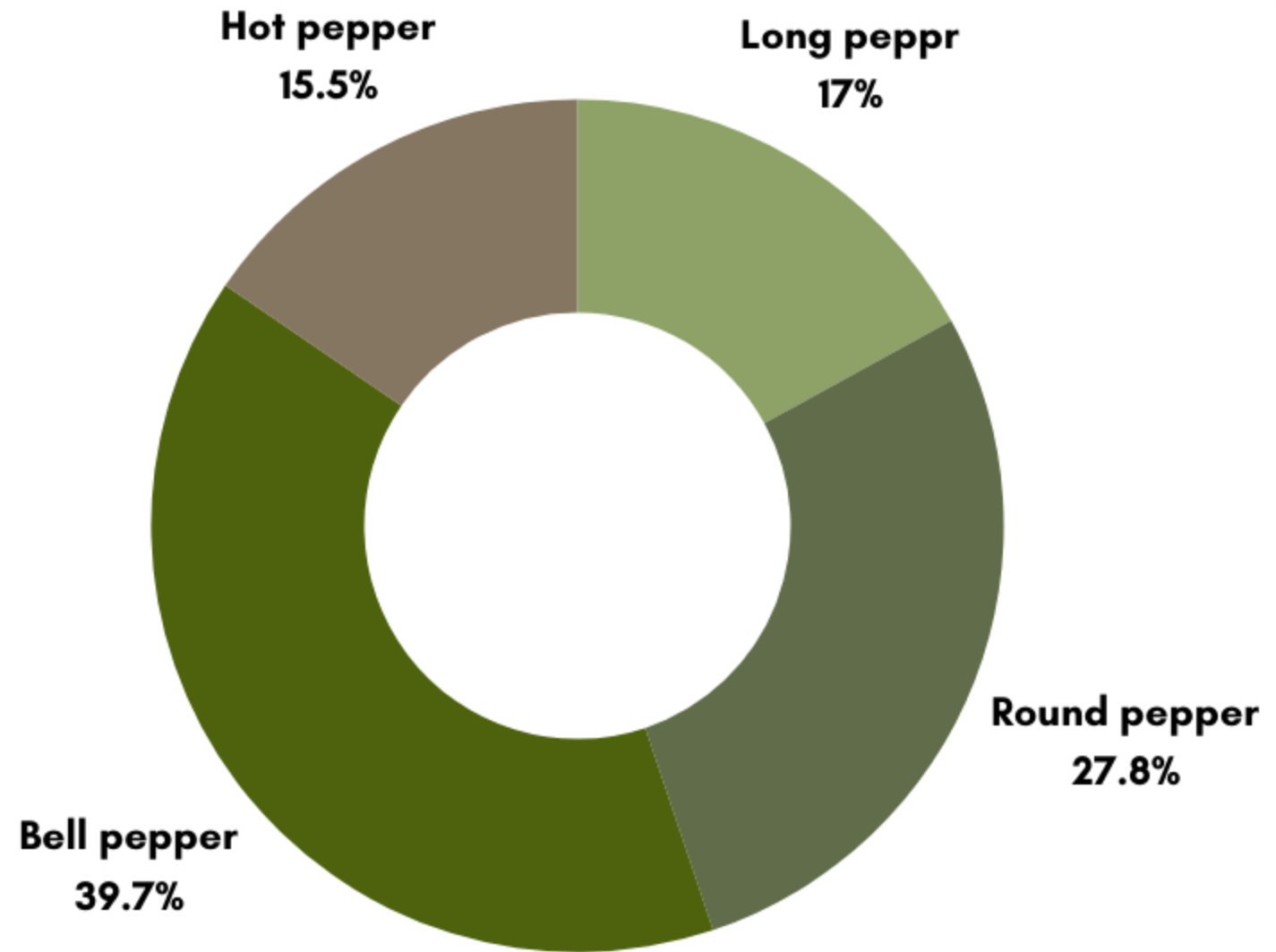
02 ADER 7.2.1

Enrichment of the vegetable gene pool by obtaining biological creations intended to obtain varieties and hybrids from the Solanaceae family, tomato, pepper, eggplant

03 ADER 7.3.5

Development of an integrated system for the control of harmful organisms in conventional and organic vegetable crops, from protected areas and field

OUR PEPPER COLLECTION



Long pepper – 33 accessions

Round pepper – 54 accessions

Bell pepper – 77 accessions

Hot pepper – 30 accessions

FIELD EXPERIMENT IN 2024



01

23 lines

- 19 lines of bell pepper
- 3 lines of long pepper
- 1 line of round pepper



02

Phenological observation

- Number of day to emergence
- ND to flowering
- ND to fruiting
- ND to mature



03

Morphological observation

- Plant Growth Characteristics
- Color at immaturity and maturity of fruits



04

Biometric measurements

- Length, width, weight of fruits





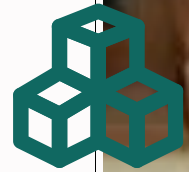
VRDS team for EUROPEPLAND project



LEADER, senior researcher



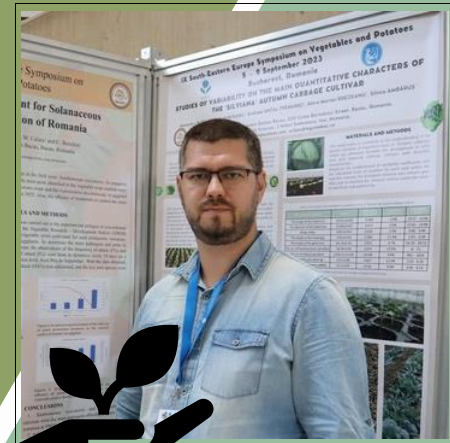
First stage researcher



Senior researcher



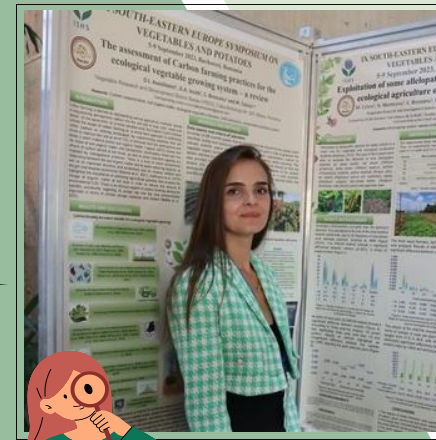
Senior researcher



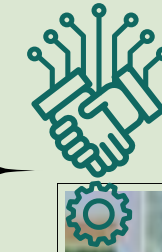
Researcher



Researcher



First stage researcher



First stage researcher





SMARTLEG

EUGRAINLEG



FOREVA

EXPLODIV



THANK YOU!

European
Cooperative
Programme
for Plant
Genetic
Resources



ECP/GR



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