



AGRICULTURAL UNIVERSITY - PLOVDIV
4000 Plovdiv, Bulgaria 12, Mendelev Blvd.
tel. +359/32/654300 www.au-plovdiv.bg



Research and Innovation Profile

General information

Description

Title of the research entity/group

SUSTAINABLE HORTICULTURE /HORTBIO/

Field of expertise

/in conjunction with Horizon 2020-Societal Challenge 2 (SC2): 'Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy'/

- Food security;
- Sustainable agriculture and forestry;
- Biodiversity;
- Genofond;
- Improving the quality of life;
- Horticulture - vegetable growing and ornamental plants

Research products and services provided by the entity/group

- Establishment and collection of existing genotypes, populations, samples and old varieties and rare vegetable and ornamental crops in Bulgaria.
- Study and describing vegetable characteristics and identifying the genetic homogeneity of the population.
- Determination of nutritional and biological value and their decorative characteristics.
- Creating a map of the locations, growing and maintenance.
- Proposing appropriate samples for inclusion in production and future breeding programs.
- Development of appropriate technological approaches for introduction into crop.
- Testing the decorative value of some vegetable species and offering them for use as decorative plants.

Participation in previous/ongoing H2020 or other EU

National Scientific Program "Healthy Foods for a Strong Bio-Economy and Quality of Life" of Ministry of Education and science of Bulgaria /<http://www.nnp-food.au-plovdiv.bg/>



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Number of researchers involved /including young researchers e.g. doctoral, post-doctoral, habilitated, etc./

9 scientist, incl.. 1 Professor, 5 Associate Professors, 2 Chef assistant professors and 1 PhD student.

Team:

Prof. Nikolay Panayotov, PhD.

Assoc. Prof. Stoyan Filipov, PhD.

Assoc. Prof Todor Babrikov, PhD.

Assoc. Prof. Valeria Ivanova, PhD.

Assoc. Prof. Kostadin Kostadinov, PhD.

Assoc. Prof. Dimka Haitova, PhD.

Research infrastructure used

The whole infrastructure of Agricultural University Plovdiv, Several farms and gardens, natural habitats.

Profile of the leading researchers in entity/group

The participants in the team have developed a long-standing scientific activity in the scope of breeding, genetic diversity, technological approaches for vegetable and decorative crops, incl. rare encountered crops and weakly covered, but with great economic and biological importance and with high nutritional and decorative value. They have considerable knowledge of the diversity of populations, species, varieties, forms and genotypes in these cultures. They know very well both traditional varieties and the presence of local and valuable genotype samples.

In which calls of Horizon 2020-SC2 or Horizon Europe the entity/group is ready to participate and how

HORIZON 2020:

Call - Sustainable Food Security:

- SFS-01-2018-2019-2020 (RIA): Biodiversity in action: between farmland and the value chain;
- C. [2020] From agrobiodiversity to dynamic value chains
- B. [2019] Capitalising on native biodiversity in farmland landscape (RIA)



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In which calls of Horizon 2020-SC2 or Horizon Europe the entity/group is ready to participate and how

- SFS-04-2019-202 (IA) Integrated health approaches and alternatives to pesticide use
 - B. [2020] Alternative to contentious pesticides
 - SFS-05-2018-2019-2020-continued - New and emerging risks in plant health
 - SFS-06-2019-2020-continued - Stepping up IPM
 - B. [2020] European wide demonstration farm network
- HORIZON EUROPE:**
- Cluster 6: Food, Bioeconomy Natural Resources, Agriculture and Environment; Partnership: AgroEcology - Towards more sustainable farming: agro-ecology living labs and research infrastructures.

Research entity/group contact person /name, postal address, e-mail, phone number/

Prof. Nikolay Panayotov, PhD. - Head of Department "Horticulture"
Agricultural University - Plovdiv,
12 "Mendeleev" Blvd.,
4000 Plovdiv,
e-mail: nikpan@au-plovdiv.bg,
tel.: +359887872720