PhD in Agrobiodiversity

Overview

The PhD Programme in Agrobiodiversity is a four-year residential Course. It aims at the enhancement of human resource capacities in the utilisation and management of genetic variation in agricultural and natural systems, in order to improve the sustainability of agricultural systems and the conservation of genetic resources for the well-being of present and future generations.

The Programme is structured into two curricula:
- Plant genetic resources;
- Functional biodiversity in agroecosystems.

Areas of study and research facilities

During the Course, PhD students are required to attend 150 hours of in class training on methodological, curricular, and interdisciplinary courses. Students are also involved in seminars, journal clubs, workshops, and conferences. However the main activity will be devoted to research activities.

All courses are taught in English.

Students may spend research activity abroad, as a visiting scholar at foreign University or research institutions, deemed relevant for their PhD project.

Here below are listed a few examples of research areas dealt in this PhD programme.

Genetic variation in single genes and/or groups of genes, as those involved in resistance to pathogens and/or pests and tolerance to environmental factors.

Role of functional biodiversity in maintaining genetic diversity, including evolution and co-evolution of pests/pathogens and host plants.

Role of functional diversity, including interactions between pests/pathogens/weeds and domesticated/volunteer/wild plants, in agroecosystem health.

Plant and crop physiology, including plant stress physiology and post-harvest physiology.

Application of agrobiodiversity solutions at genetic, species and habitat level to improve crop performance, crop protection, sustainable crop/forestry management and multifunctional land use.

Job Opportunities

Research and counselling in national and international organisations.

The Programme is intended for students willing to pursue an academic career but also provides professional research skills to work in public and private research institutions. Most of our previous PhD students now work as research fellow or have tenure track in national and international institutions.

Highlights

The Doctoral Programme in Agrobiodiversity particularly welcomes applications from candidates coming from Emerging Countries, whose research may include activities either in their Country of origin or in other Emerging Countries. The doctoral programme has active several Memorandum of Understanding with national and international institutions for the studying and valorization of agrobiodiversity, among which the Alliance of Bioversity and CIAT (ABC), CIMMYT, CIRAD.

Info and contacts

info-phdlifesciences@santannapisa.it
Phone: +39 050 882 604

Scan the QR code: more detailed information on the Programme and the call for admission.