



CROP SCIENCE



DAFNAE

TESAF



Ph.D course in Crop Science



Coordinator : Prof. Massimo Faccoli
Assistant coordinator : Prof. Vittoria Giannini
Administrative reference : Dr. Francesca Sfragara →

PhD Council: 40 Italian Researchers/Professors
1 Foreign Researcher
+ 15% Ph.D Students

PhD Students 51 (19 XXXVII cycle, 19 XXXVIII cycle, 13 XXXIX cycle)



DAFNAE

TESAF



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

The Crop Science PhD Program



SPV - PhD in Crop Science

Mission

Crop Science offers a **high-level education** on different aspects of **crop production** (crop genetics, agronomy, crop production, plant protection, microbiology, ...).

PhD students will have the opportunity to **develop their interests** in these fields and to create scientific and professional connections useful to build a **successful future**.



Main topics:

1. Agro-biotechnologies (genetics and crop physiology)

- ◉ Plant genetics and breeding
- ◉ Genomics and proteomics of plant cells
- ◉ Reproductive systems
- ◉ Seed development and fruit maturation
- ◉ Plant adaptation to environmental stresses
- ◉ Selection and genetic improvement of microorganisms for the conversion of residual biomass into high added value products
- ◉ Mechanism involved in resistance to agrochemicals

2. Plant-environment interactions

- ◉ Crop ecophysiology and management
- ◉ Plant-insect, plant-pathogen and plant-weeds interactions
- ◉ Role of micro-organisms in symbiotic and not symbiotic associations with plants
- ◉ Anti-oxidation systems and environmental stress

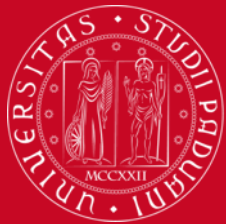




3. Ecosystem management

- ◉ Human impact on ecological systems
- ◉ Mitigation of pollution
- ◉ Soil and Soil Organic Carbon (SOC) evolution and management
- ◉ Integrated Pest Management (IPM)
- ◉ Use of plants and micro-organisms for pollutants removal
- ◉ Post-harvesting management





Specific activities for the first year

Winter School

Where: in Paluzza (UD), at “*Centro Servizi per le foreste e le attività della montagna – CESFAM*”

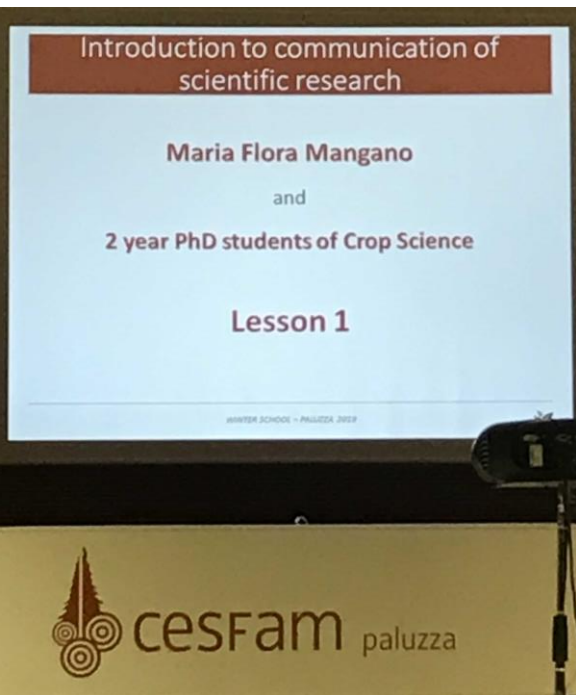
When: 3^d week of January (to be defined in the coming weeks) – Monday to Thursday

What: seminars will be carried out by Italian and/or International experts on communication skills

How: project works on specific topics will be assigned to groups of students. Additionally, the Ph.D. students will present and get feedback on their research project.



Winter School 2018



WINTER SCHOOL – PALUZZA 2019





2024

We wait for you at the
next Winter School!

