



CROP SCIENCE



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DAFNAE

TESAF



SPV - PhD in Crop Science

Ph.D course in Crop Science

Coordinator :
Assistant coordinator :
Administrative reference :

Prof. Massimo Faccoli
Prof. Vittoria Giannini
Dr. Francesca Sfragara

Teaching Board:

43 Italian Researchers/Professors
1 International Researcher
+ 15% Ph.D Students

PhD Students

44 (13 XXXIX cycle, 17 XL cycle, 14 XLI cycle)





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The Crop Science PhD Program



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 specific interests** in these fields and to create scientific and professional connections useful to build a **successful future**.



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Agrobiotechnologies

Opening the door to the most advanced technologies.

Main topics:

1. Agro-biotechnologies (genetics, crop physiology and production)

- Plant genetics and breeding
- Genomics and proteomics of plant cells
- Reproductive systems
- Seed development and fruit maturation
- Plant adaptation to environmental stresses
- Selection of microorganisms for residual biomass conversion and re-use





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Plant protection

Plant-pathogen interactions,
entomology, plant diseases.

Main topics:

2. Plant protection

- Plant-insect, plant-pathogen and plant-weeds interactions
- Mechanisms involved in resistance to agrochemicals
- Integrated Pest Management (IPM)
- Role of micro-organisms in symbiotic associations with plants





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Agronomy

The challenges of the climate change era, precision agriculture and innovation in agronomy.

Main topics:

3. Agronomy and plant-environment interactions

- Crop ecophysiology and management
- Anti-oxidation systems and environmental stress
- Human impact on ecological systems
- Mitigation of pollution
- Soil Organic Carbon evolution and management
- Plants and micro-organisms for pollutants removal
- Post-harvesting management





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Specific activities for the first year

Winter School

Where: in Montebelluna (PD),
at “San Marco Educational Center”

When: February – Monday to Thursday

What: seminars will be carried out by Italian
and International experts

How: groups activities on specific topics.
The Ph.D. students will present and get feedback
on their research project.



Winter School 2022





PhD in Crop Science

PHONE NUMBER
+39 049 8272835

E-MAIL
phdcs.dafnae@unipd.it

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