



# **CROP SCIENCE**



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**TESAF**



## SPV - PhD in Crop Science

### Ph.D course in Crop Science

Coordinator :

Prof. **Massimo Faccoli**

Assistant coordinator :

Prof. **Vittoria Giannini**

Administrative reference :

Dr. **Francesca Sfragara**

Teaching Board:

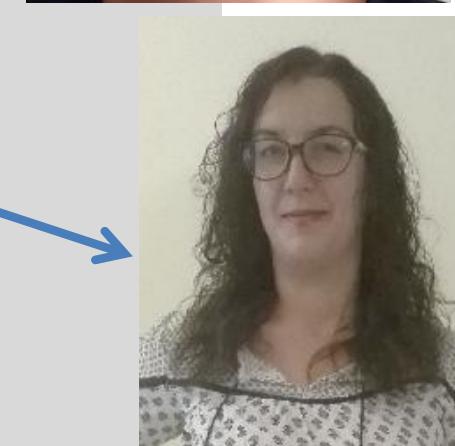
**43** Italian Researchers/Professors

**1** International Researcher

**+ 15% Ph.D Students**

PhD Students

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





## 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**.



## 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

## Agrobiotechnologies

Opening the door to the most advanced technologies.





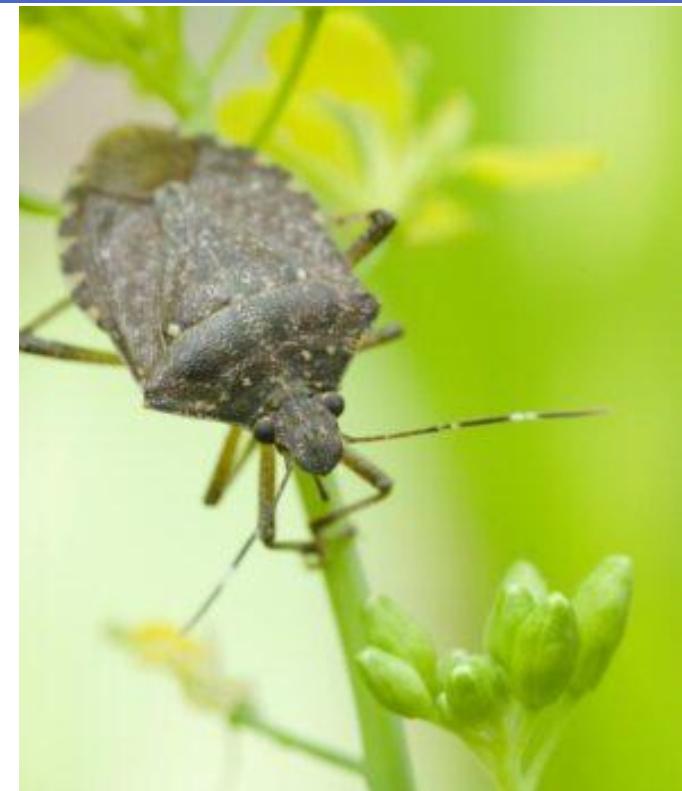
## Main topics:

### 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

## Plant protection

Plant-pathogen interactions,  
entomology, plant diseases.





## Main topics:

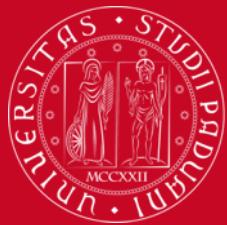
### 3. Agronomy and plant-environment interactions

- Crop ecophysiology and management
- Anti-oxydation 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

## Agronomy

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





## Specific activities for the first year

### Winter School

**Where:** in Monteortone (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



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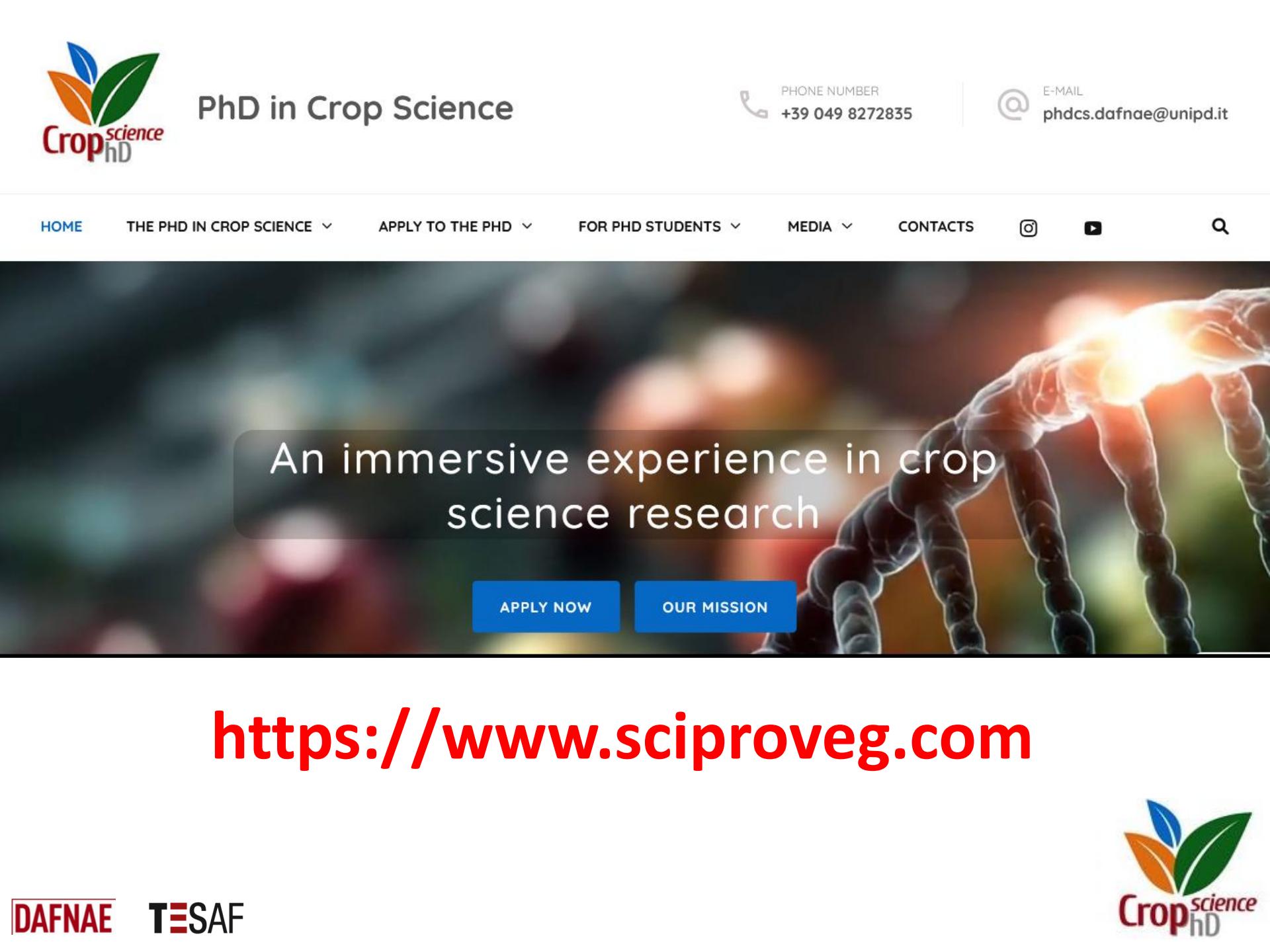
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