

## PhD Course in Animal and Food Science

### PhD Training Program

**TO BE APPROVED BY THE COUNCIL OF THE PHD COURSE**

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|--|--|---------------|-----------|
| <b>PhD student<br/>(surname and name):</b>       |  | <b>CYCLE:</b> | <b>XL</b> |
| <b>Supervisor:</b>                               |  |               |           |
| <b>Co-supervisor<br/>(compulsory)</b>            |  |               |           |
| <b>Research area</b> (at least 2 –3 keywords)    |  |               |           |
|  |  |               |           |
| <b>Research topic</b> (Title and short abstract) |  |               |           |
|  |  |               |           |

**Methodological approaches**

**Expected results** (research stages abroad, publications, participation to national and international congresses, patents, etc.)

**Participation in research projects:**

## **Educational offer**

The student, together with her/his supervisor, must select the courses that she/he would like to attend among those listed below, included in the Educational Offer of the Course. The minimum requirement is **at least 12 ECTS** to be selected out of the list below (labelled as C-Compulsory in the [list of the teaching activities](#) on the web page of the Course). Some compulsory courses are already marked by **[X]**. The PhD student can also select further courses for the **Cross-curricular training activities and soft skills** as proposed below.

Additional courses included in the Educational Offer of the PhD Courses of Agripolis, and here available, could be selected by the students, but do not contribute to satisfy the minimum requirements.

The calendar of the courses will be available [here](#) by the next September 30, 2024.

### **DISCIPLINARY TRAINING ACTIVITIES**

**Nutrigenomics in livestock sector** (1 ECTS)

Teacher: Diana Giannuzzi (DAFNAE)

**Animal welfare assessment and risk management** (1 ECTS)

Teacher: Flaviana Gottardo (MAPS)

**Integrated assessment of sustainability in livestock system** (1.5 ECTS)

Teacher: Marco Berton, Francesco Bordignon, Marco Schiavon (DAFNAE)

**Food Microbiota & Human microbiome** (1 ECTS)

Teachers: Alessio Giacomini, Viviana Corich (DAFNAE)

**Animal-based Vs. Plant-based foods** (1 ECTS)

Teachers: Massimo De Marchi, Giovanni Niero (DAFNAE)

**Theoretical and Practical Bioinformatics Approaches in Animal and Food Science** (4 ECTS)

Teachers: Piergiorgio Stevanato, Samathmika Ravi (DAFNAE)

**Strategies and tools to reduce environmental impacts: the case of LCA methodology** (3.5 ECTS)

Teachers: M. Masiero & M. Zanetti

### **CROSS-CURRICULAR TRAINING ACTIVITIES AND SOFT SKILLS**

#### **LINGUISTIC**

**Scientific Writing in English** (4 ECTS)

Teacher: Mark E. Olson

**English language**

Teacher: Centro Linguistico di Ateneo (CLA)

**Italian language for foreigners**

Teacher: Centro Linguistico di Ateneo (CLA)

#### **INFORMATICS AND STATISTICS**

**Basic Statistics** (2 ECTS)

Teachers: L. Picco, Giulia Zuecco (TESAF)

**Applied Statistics with Applications in R** (2 ECTS)

Teachers: Alessio Cecchinato, Sara Pegolo (DAFNAE)

[ ] **Advances Statistics with R: Experimental Design in Lab and Field** (1.5 ECTS)

Teachers: Roberto Mantovani, Ilaria Piccoli (DAFNAE)

[ ] **Advances Statistics with R: Mixed Models** (2 ECTS)

Teachers: Cristina Sartori (DAFNAE)

[ ] **Spatial Statistics** (2 ECTS)

Teacher: M. Borga, G.Zuecco (TESAF)

[ ] **Introduction to GIS** (1.5 ECTS)

Teacher: R. Rossi (TESAF)

[ ] **Introduction to R for statistical analysis** (0.5 ECTS)

Teacher: G. Zuecco (TESAF)

[ ] **Modelling and big data for biological systems** (3 CFU)

Teacher: M. Putti – E. Bachini

**RESEARCH MANAGEMENT, KNOWLEDGE OF RESEARCH SYSTEMS AND FINANCING PROGRAMS**

[ ] **The role of the Principal Investigator** (1 ECTS)

Teacher: Giancarlo Renella (DAFNAE)

[ ] **Spatial statistics in socio-economic research** (2 ECTS)

Teachers: F.Pagliacci (TESAF)

[ ] **Introduction to your entrepreneurial post-doc life** (0,3 ECTS)

Teachers: A. Leonardi

[ ] **Health and Safety at work** (NO ETCS)

**IPR AND IPR EXPLOITATION**

[ ] **How to prepare and present a scientific paper** (1.5 ECTS)

Teachers: S. Segato & D. Pettenella (MAPS, TESAF)

[ ] **Dissemination of science: contents and tools** (1.5 ECTS)

Teacher: Massimo Polidoro

[ ] **The evaluation of research output: the Italian assessment framework** (1.0 ECTS)

Teacher: L. Cei (TESAF)

[ ] **Choose, design, write and present PhD research projects and results** (4.0 ECTS)

Teacher: L. Secco, M. Masiero, D. Pettenella, M. Borga, R. Da Re (TESAF)

[ ] **Exploring humans: from individual to collective data collection tools and techniques** (3.0 ECTS)

Teacher: L. Secco, R. Cassini, R. Da Re, E. Pisani, A. Moriggi (TESAF)

**BASIC PRINCIPLES OF ETHICS, GENDER EQUALITY, AND INTEGRITY**

[ ] **Ethics in writing and reviewing** (0.5 ECTS)

Teacher: Marco Borga (TESAF)

[ ] **Research integrity: pills of ethics before spritz break** (4 events - 1.5 h)

Teachers: M. Giantin & A. Squartini (BCA, DAFNAE)

## SEMINARS

The PhD Course frequently organizes seminars with the collaboration of the Professors and the contribution of the PhD students of the Course. Seminars are held by experts, PhD students, visiting PhD, visiting professors and visiting researchers at the University of Padova (DAFNAE, BCA and MAPS). The offer of the seminars is always shared with the other PhD Courses in Agripolis and is regularly announced on the NEWS section of the Course web page, besides being reported in the calendar of the teaching activity shared in Agripolis.

Additionally, the following activities are offered:

**Welcome to research (AS and CS) first year and one year later** in Animal and Food Science and Crop Science PhD Courses

Teacher: Nicola Bertin

**Workshop Training Three-minutes thesis competition**

Teacher: Francesca Trevisi

**PhD educational week on transferable skills** (organized by UNIPD): Expected modules: "Research Communication, Responsible Research and Innovation and Big Data Science"; PhD educational week Focus on "Entrepreneurship and Career Development"

**Yearly WORKSHOP** of the Italian Network of the PhD Courses in Food Science, Technology and Biotechnology (September 2025)

## ADDITIONAL DISCIPLINARY COURSES OR CROSS-CURRICULAR TRAINING ACTIVITIES AND SOFT SKILLS

Additional Courses or cross-curricular activities and soft skills (already included in the Educational Offer of the PhD Courses of Agripolis or selected elsewhere by the PhD student with his/her supervisor) can be selected and already specified at the time of the submission of the individual training course to the Council by the PhD students. These Courses do not contribute to satisfy the minimum requirements.

**Please, note that Courses offered within any Bachelor and/or Master Course cannot be included in the training program.**

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The Supervisor

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The PhD candidate