Ph.D. COURSE ANIMAL & FOOD SCIENCE
UNIVERSITY OF PADOVA

The Ph.D. Course in ANIMAL and FOOD SCIENCE is offered by the University of Padova located within the Veneto region, well known for its animal production and its food industry, which provide high quality and high priced Italian foods and wines. It offers excellent working conditions in a challenging environment for talented researchers who strive for international collaborations in one of the best academic research institutions in Italy.

Due to its interdisciplinary core, the Ph.D. course offers research projects in the fields of animal sciences and technologies, food sciences and technologies, agricultural microbiology, agricultural chemistry and genetics. All Ph.D. activities are strongly connected by common educational programs and integrated research activities.

The Ph.D. course offers from 6 to 14 scholarships/year granted by public institutions and private companies. Annual selection procedures are held by the University of Padova.

Unismart foundation provides funding for industrial Ph.D. projects with the participation of private companies.

The Cariparo bank foundation offers an additional opportunity to foreign students by reserved grants.

The China Scholarship Council (CSC) offers two scholarships to candidates from the People's Republic of China.

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UNIVERSITÀ DEGLI STUDI DI PADOVA

The Ph.D. course is held at AGRIPOLIS, a campus for students of the School of Agricultural Sciences and Veterinary Medicine of the University of Padova. The Campus of Agripolis is located in Legnaro, a town close to the center of Padova and close to Venice.

How to reach us:
AIRPLANE *From Venezia Airport "M. Polo" then take the bus to the Padova train station (40 km): bus transport. From Treviso Airport "A. Canova" then take the bus to the Padova train station (70 Km): bus transport.*
TRAIN *Railway station FS-Trenitalia Padova then take the bus to Agripolis (10 km).*

For further information, visit: **www.agrariamedicinaveterinaria.unipd.it/en/**

DEPARTMENT OF AGRONOMY, FOOD, NATURAL RESOURCES, ANIMALS AND ENVIRONMENT (DAFNAE)

35020 LEGNARO (PADOVA) , ITALY

twitter.com/phd_food

phdanimalfoodscience@unipd.it

WWW.PHDANIMALFOODSCIENCE.ORG

Ph.D. COURSE ANIMAL & FOOD SCIENCE

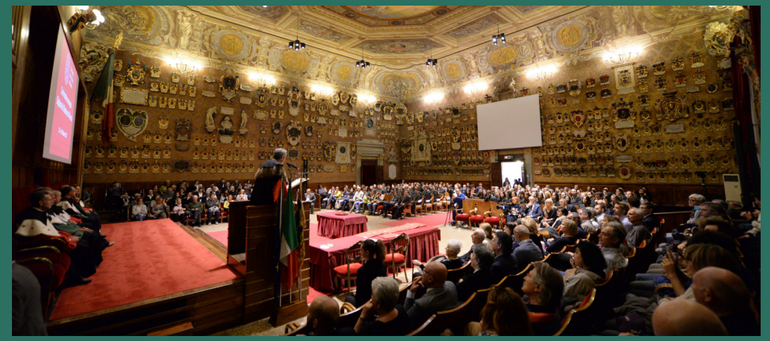
UNIVERSITY OF PADUA

EDUCATIONAL OFFER

The Educational Offer includes **specific disciplinary training activities** as well as **cross-curricular training activities and soft skills**, which comprise, among the others, Linguistic training, Statistics, IPR and IPR exploitation, Ethics in scientific research, and various fields of scientific communication.

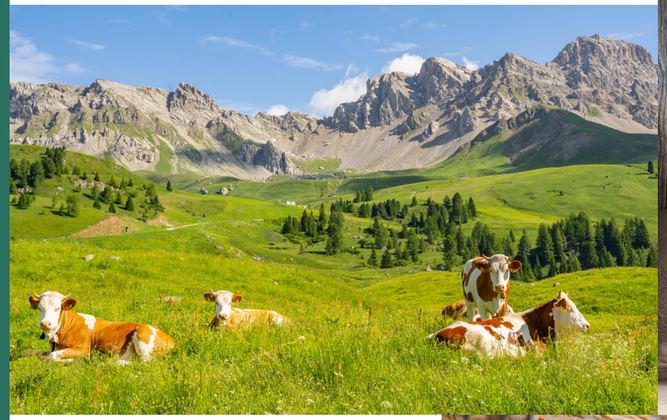
Students choose their field and project under the supervision of one or more professors and within **a wide range of research opportunities**, whose objectives are consistent with the European Green Deal and the Farm2Fork strategy.

Strong cooperation with several universities across the world, Italian and European organizations of producers, private companies, and public institutions allow **joint research activities and internships** in the frame of national and international projects. Internships abroad are mandatory.



The Ph.D. course in Animal and Food Science trains students to solve complex problems in animal and food production, manipulating processes and using advanced technologies consistent with Smart Agrifood.
Graduated Ph.D. candidates will use their scientific approach in data management and analysis (Big data included) as well as in automated systems (Industry 4.0) for achieving different objectives: improvement of genetic traits, feeding and rearing practices of farm animals; increased value of farm produce and product quality; innovation of processes; added value of agro-food production systems; implementation of sustainable practices based on ethics, society, and the environment; protection of animal welfare and biodiversity according to the Sustainable Living logic.
They will be able to undertake positions concerned with technical-scientific management and coordination, research and development, innovation, and applied research in private companies, public institutions, and Universities.

MAIN RESEARCH TOPICS



FOOD SCIENCE

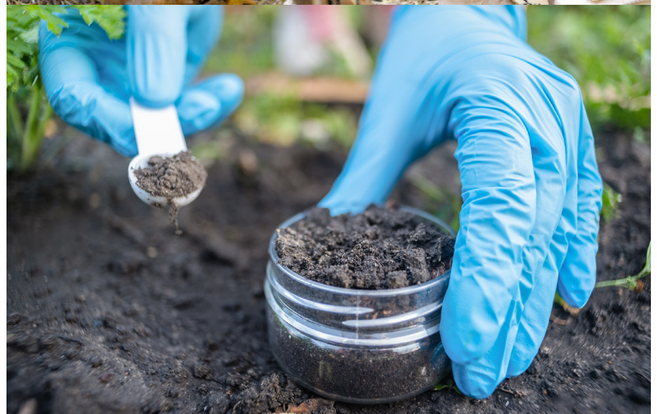
Consistent with the priorities identified at a national and European level in Food Technology and Biotechnology - such as innovation in product and processing, food safety, including optimal preservation of food, nutraceuticals, novel food production, increased value of traditional food products - and with great attention to the global impacts on environmental protection, production sustainability, increased value of by-product, and consumer perception.

Main research topics are: Food quality and technology; Optimization of food manufacturing; Novel and functional food; Food industry by-products; Food enzymology; Biochemistry of food processing; Food sensory quality; Meal preparation and distribution; Food safety and food service; Wine, alcoholic beverages, and distillates technology and quality.

ANIMAL SCIENCE

Aims to discover and disseminate new knowledge to improve production processes, quality of food and sustainability of animal farming.

Main research topics include:
Biostatistics and modelling for selection and crossbreeding of domestic animal populations; Biotechnologies applied to genetic improvement; Biodiversity protection, traceability of products; Animal feeding and nutrition, economic and environmental sustainability of animal production systems; Ethology and welfare of livestock; Sustainable animal production systems; Milk quality, cheese-making, and cheese quality; Meat quality and nutritional value, high quality and high price processed meat and sausage; Quality of products of animal origin.



AGRICULTURAL CHEMISTRY

Devoted to the chemical, biochemical, physiological, genetic, molecular, biotechnological, pedological, and ecological aspects of the soil-water-plant-atmosphere systems both in the agricultural, forestry, and anthropogenic environments. Research is aimed at enhancing and protecting agro-biodiversity as well as guaranteeing the quality and the safety of agro-food production and promoting sustainable rural environments.

Main research topics include: Conservation, improvement, and restoration of soil fertility; Use and recycling of biomass; Accumulation, mobilization, and absorption of endogenous and exogenous chemical species; Structure, function, expression, and regulation of genes and genomes; Plant adaptation to abiotic stress at molecular level; Heredity in prokaryotic and eukaryotic organisms of agricultural interest; Genetic improvement of species of agricultural and forestry interest; Soil systems; Biostimulants for agriculture.