

PhD Program in Health and Veterinary Experimental Sciences

Coordinator: Prof. Marco Pepe – e-mail: marco.pepe@unipg.it

Department of Veterinary

The PhD program in "Health and Veterinary Experimental Sciences" aims to train highly professional figures able to design and implement research projects in the field of experimental sciences and biotechnology applied to animal production and public health, as well as in veterinary clinical disciplines. The acquired skills will allow PhD students to work in the field of higher education and to carry out highly qualified activities, able to fulfil the requests of public and private institutions in the fields of basic research and research applied to areas related to health, quality and food safety.

Professional areas of pertinence of the PhD are:

- Public and private diagnostic veterinary laboratories, public health facilities involved in the control of any contagious disease and in the safety of food of animal origin, animal husbandry farms;
- Factories for animal feed production;
- Centres for the selection and the genetic improvement of livestock;
- Facilities for the production and packaging of products of animal origin;
- Facilities for the production and promotion of local products;
- Molecular biology research centres operating in the diagnostic and therapeutic fields (production of drugs and vaccines), as well as in the field of nutrigenomic;
- Veterinary clinics, private or public animal facilities for diagnostic and therapeutic studies applied to animal diseases, as well as for comparative pathology and identification of animal models for human diseases.

Curriculum 1 - "Biotechnology applied to veterinary science" the curriculum addresses issues associated with the use and development of molecular, cellular and diagnostic technologies applied to nutrition, reproduction, genetic improvement of animals, as well as public health and veterinary care.

Curriculum 2 – "Veterinary public health and food hygiene" the curriculum addresses issues related to the achievement of adequate instruments of prevention and surveillance in the man-animal food chain and to the development of innovative techniques and methods for veterinary supervision, traceability and sanitation control of food of animal origin.

Curriculum 3 - "Clinical sciences and veterinary diagnostics" the curriculum addresses issues related to the comprehension and application of new technologies and scientific knowledge in the field of prevention, diagnosis and treatment protocols of companion and farm animals diseases.