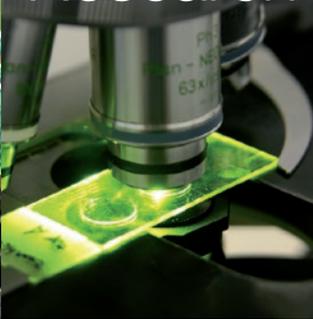


Research



Healing



Teaching



25 

1765-2015

RESPONSIBILITY FOR ANIMALS AND PEOPLE

At a Glance



Mission: Responsible teaching, visionary research and ambitious healing.

Core values: dedicated – confident – responsible



For Animals and People

The University of Veterinary Medicine, Vienna stands for a first-rate education with a high degree of practical relevance. Outstanding basic research in veterinary medicine and the natural sciences, as well as applied and clinical research, ensure scientific progress that – in keeping with the One Health approach – benefits animals and humans. Healthy animals and safe animal-based foods are an essential prerequisite for public health.

The academic offering meets international standards. Course content is conveyed in an interdisciplinary and problem-based fashion. Five University Clinics, an agricultural teaching and research farm and an on-site training centre with a practice veterinary clinic are available for clinical and hands-on training.

The University Clinics are both teaching hospital and transfer clinic for scientifically challenging cases from local veterinarians. Animal patients are cared for all year long, round the clock.

The Vienna campus of the Vetmeduni Vienna houses a kindergarten where staff and students can have their children cared for during the day. It also includes two research institutes at Vienna's Wilhelminenberg and an extensive teaching and research farm south of Vienna with a satellite in Wieselburg.

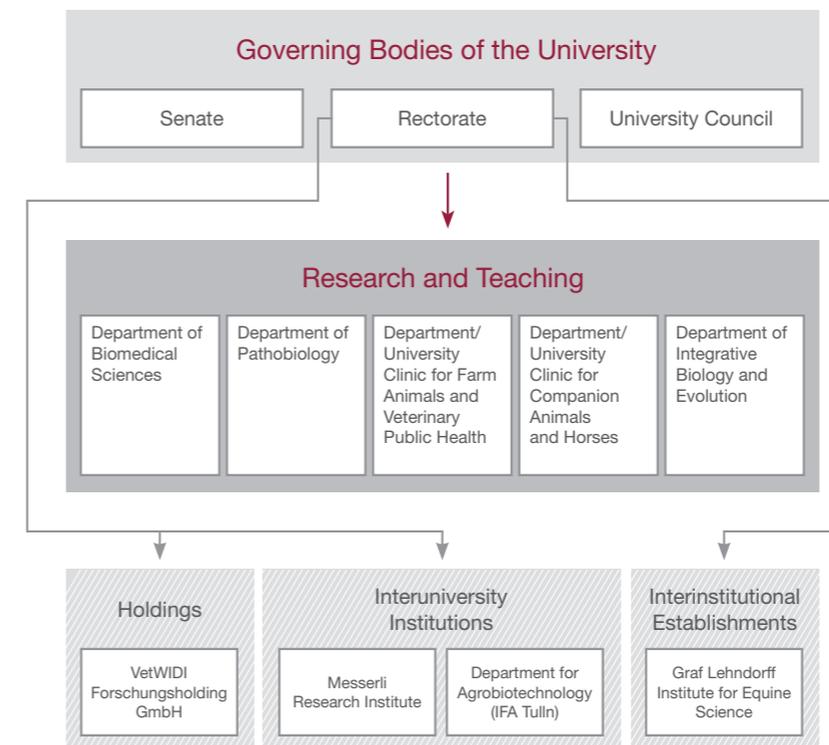
Topic areas of the Vetmeduni Vienna:

- Animal health
- Preventive veterinary medicine
- Comparative medicine
- Animal models
- Public health and food safety
- Animal husbandry, animal welfare and animal ethics
- Organismal biology and biodiversity



Rectorate (l. to r.):
Christian Mathes, Vice-Rector for Resources
Otto Doblhoff-Dier, Vice-Rector for Research and International Relations
Petra Winter, Vice-Rector for Study Affairs and Clinical Veterinary Medicine
Sonja Hammerschmid, Rector

Organisation



The Vetmeduni Vienna champions the compatibility of career and family, also school and family; it has been accorded the "hochschuleundfamilie" ("university and family") certificate since 2011.

The Vetmeduni Vienna by numbers

Staff (as of 31 December 2014)

- over 1,300 staff
- including ca. 650 scientific staff
- among them 38 professors

Students (as of 31 December 2014)

- about 2,300 students in total
- ca. 2,050 regular students

University Clinics (as of 31 December 2014)

- over 43,000 animal patients annually
- 5 species-specific University Clinics:
 - University Clinic for Poultry and Fish Medicine
 - University Clinic for Small Animals
 - University Clinic for Horses
 - University Clinic for Swine
 - University Clinic for Ruminants



First-rate education

The Vetmeduni Vienna offers its students a first-rate education. In addition to diploma and doctoral programmes in veterinary medicine, there are bachelor's and master's programmes in biomedicine and biotechnology. A bachelor's programme in equine sciences is offered; as well as master's programmes in human-animal interactions and comparative morphology. PhD programmes round out the educational palette. Internships and residencies serve to deepen veterinary medical education after formal studies have been completed. Various courses of study at the University facilitate education and continuing education in specialized areas.

Hands-on education

Hands-on education is writ large at the Vetmeduni Vienna. Students can apply their knowledge in practice at the University-owned teaching and research farm in Lower Austria, which includes four agricultural holdings. With the mobile clinic, students can drive to partner enterprises and prepare themselves to be farm animal veterinarians. The teaching and research farm is an important complement to the teaching hospital on the Vienna campus.

The "VetSim – Simulating Vet's Life" skills lab of the Vetmeduni Vienna provides a hands-on setting to train prospective veterinarians for their future careers. In this practice veterinary clinic plus laboratory, students can acquire practical experience. Small procedures that are part of a veterinarian's

routine tasks may be practiced repeatedly on a canine dummy—until they are mastered and can be performed correctly and professionally. In this way, students are well prepared to interact with the animal patients they will encounter as veterinarians.

Student-Centered Learning

The educational approach at the Vetmeduni Vienna is based on the concept of student-centered learning. This means that a central tenet is students having primary responsibility for learning. Teaching takes place in small groups and classes are structured to be interactive, with multimedia support such as a clicker system or the Vetucation® e-learning platform.

Courses of study (as of 1 October 2014)

- Veterinary Medicine (diploma, doctoral programmes)
- Equine Science (bachelor's programme)
- Biomedicine and Biotechnology (bachelor's programme)
- Biomedicine and Biotechnology (master's programme, English language)
- Comparative Morphology (master's programme, English language)
- Human-Animal Interactions (master's programme, English language)
- Wildlife Ecology and Wildlife Management (master's programme, in cooperation with the University of Natural Resources and Life Sciences, Vienna)
- PhD programme

University courses of study/continuing education

- Applied Cynology
- Introduction to Laboratory Animal Medicine
- Animal-assisted Therapy and Animal-assisted Supportive Measures
- Certified Canine Rehabilitation Practitioner (CCRP)

Internships

- Small Animal Medicine, Equine Medicine, Ruminant Medicine

For every category of animals, all clinical areas – from anaesthesiology to diagnostic imaging to pathology – are covered on a rotation basis.



Residency Programmes

European Colleges of

- Animal Reproduction (ECAR)
- Bovine Health Management (ECBHM)
- Equine Internal Medicine (ECEIM)
- Porcine Health Management (ECPHM)
- Poultry Veterinary Science (ECPVS)
- Veterinary Anaesthesia und Analgesia (ECAVA)
- Veterinary Clinical Pathology (ECVCP)
- Veterinary Internal Medicine Companion Animals (ECVIM-CA)
- Veterinary Internal Medicine Companion Animals, Oncology (ECVIM-CA, Oncology)
- Veterinary Ophthalmology (ECVO)
- Veterinary Pathologists (ECVP)
- Veterinary Surgery, Small Animal Surgery (ECVS)
- Veterinary Surgery, Large Animal Surgery (ECVS)
- Veterinary Parasitology (EVPC)





Research across Borders

Researchers at the Vetmeduni Vienna conduct outstanding basic research in veterinary medicine and the natural sciences, as well as applied and clinical research. Therein, teaching and research are closely linked. This leads to new perspectives in prevention, innovative diagnostic possibilities and more targeted treatments, which can be rapidly introduced into veterinary medical practice to benefit animal patients.

Relevant to society

The Vetmeduni Vienna researches topics that are meaningful to society: the emphasis is on animal health and preventative veterinary medicine, public health and food safety. Research interests are focused on generating a scientific basis for the well-being of animals and on issues of animal husbandry, animal welfare and animal ethics.

One Health – Research for Animal and Human Health

Veterinarians work at the interface of the animals, humans and the environment. Their research efforts foster animal health and contribute to food safety. Newly developed treatment methods are beneficial for humans as well as animals. This strategy is called “One Health”.

Successful in Science and Research

Numerous major research projects such as Christian Doppler laboratories, Special Research Programmes (SFB) of the Austrian Science Fund (FWF), European Research Council (ERC) grants and many others attest to the successful scientific activities of the Vetmeduni Vienna.



Research Focus

Research activities at the Vetmeduni Vienna are concentrated around these core topics:

- Endocrinology
- Nutrition physiology
- Infectious diseases (fish, poultry, swine)
- Food microbiology and risk analysis of animal-based food products
- Population genomics
- Translational medicine (transgenic models) in infectious diseases, inflammation and cancer research
- Behavioural biology and behavioural ecology (incl. cognition)
- Wildlife ecology and medicine





The University Clinics

- University Clinic for Poultry and Fish Medicine
- University Clinic for Small Animals
- Equine University Clinic
- University Clinic for Swine
- University Clinic for Ruminants



Round-the-clock animal care

At the University Clinics, animal patients are cared for around the clock. The University Clinics serve as a teaching hospital for students at the University and simultaneously as a referral clinic for local veterinarians. The portals of the University Clinics are also open to animal owners for the veterinary services and procedures their pets require. Thereby, clinically and scientifically challenging cases often lead to important scientific insights, which ultimately benefit these and other animal patients.

High-tech medicine

With a treatment, prevention and diagnostic services offering that is as broad as it is highly specialized, the University Clinics are able to provide their animal patients with innovative, research-based medical care. Internationally renowned veterinary specialists, so-called diplomates, treat patients according to the most up-to-date research.

The University Clinics are outfitted with state-of-the-art equipment. In the diagnostic imaging area this includes high-tech instruments such as a very fast and precise computer tomography (CT) scanner, and also a magnetic resonance imaging (MRI) scanner for visualizing pathological changes in their very early stages.

For the treatment of tumour patients, experts at the University Clinics have a modern linear accelerator at their disposal for radiation therapy. The University's own scintigraphy imaging system can be used in the determination of metabolic diseases in animal patients, for example, since it portrays metabolic activity in the body.

Diagnostics for the University and its partners

The Vetmeduni Vienna's comprehensive array of diagnostic examinations is also available for use by our research and business partners, as well as practicing veterinarians. Essential parts of the routine diagnostic examinations are ISO 9001 certified.

Laying the Foundations

The Department of Biomedical Sciences combines many different basic research subjects. One focus is the analysis of various signalling pathways in cells in order to decode links between immune system, infections, inflammation and cancer.

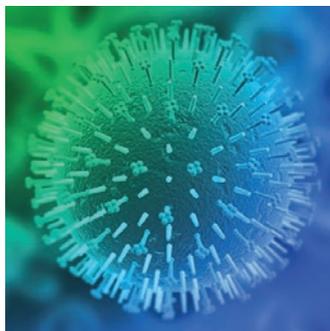
Experimental endocrinology studies the effects of hormones in both healthy and diseased organisms. Population genetics, reproduction biotechnology and transgenetics all investigate how genes and genomes spread and how they work in different organisms.

Overall, the department makes a significant contribution to the development of Transnational and Comparative Medicine. Scientific results do not only contribute to the advancement of veterinary medicine but also to the improvement of human medicine. The Department's methodological expertise and interdisciplinary approach enable efficient processing of scientific questions and create ideal conditions for education and training of students and scientists.

Institutes and Platforms

- Institute of Laboratory Animal Science
- Institute of Medical Biochemistry
- Institute of Pharmacology and Toxicology
- Institute of Physiology, Pathophysiology and Biophysics
- Institute of Population Genetics
- Institute of Animal Breeding and Genetics

- Bioinformatics and Biostatistics Platform
- Biomodels Austria Platform





At the Interface

The Department deals with drawing boundaries between sick and healthy. Its scientists study the genesis of both infectious and non-infectious diseases and monitor their progress.

Research is centered not only on pathogenic germs such as viruses, bacteria and parasites but also on the host's immune responses and tissue changes caused by infections. One focal point is the study of interaction between host and pathogen.

Research comprises macro- and microscopic morphological, immunological, biochemical and molecular methods. The Department combines disciplines from both basic and application-oriented research and provides services to university hospitals as well as to veterinary practitioners.

The results gained from research provide new efficient methods for diagnostics and follow-up of diseases so that new therapeutic strategies can be developed and checked.

Institutes and Platforms

- Institute of Anatomy, Histology and Embryology
 - Institute of Immunology
 - Institute of Microbiology
 - Institute of Parasitology
 - Institute of Pathology and Forensic Veterinary Medicine
 - Institute of Virology
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- Clinical Pathology Platform



Healthy Animals for Safe Food

The Department for Farm Animals and Veterinary Public Health makes an important contribution not only to animal health but also to the conservation of farm animal stocks and to public health service, especially to food safety.

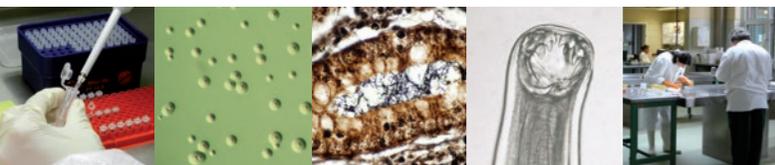
The safety and quality of food of animal origin is analysed along the entire production chain ("from stable to table"). This includes not only the primary production by agricultural businesses but also the slaughter of animals and the processing of meats.

All university clinics and institutes associated with the department teach and study in the field of veterinary medicine for farm animals using state-of-the-art approaches in prevention, diagnostics and therapy as well as in livestock management. The welfare and protection of animals are of special importance in the department's work.

Its objective at all times is the improvement of animal health in order to obtain safe food of high quality.

Institutes and University Clinics

- Institute of Meat Hygiene, Meat Technology and Food Science
- Institute of Milk Hygiene, Milk Technology and Food Science
- Institute of Veterinary Public Health
- Institute of Animal Nutrition and Functional Plant Compounds
- Institute of Animal Husbandry and Animal Welfare
- University Clinic for Poultry and Fish Medicine
- University Clinic for Swine
- University Clinic for Ruminants



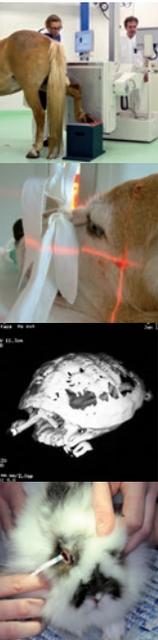


Serving Patients

The Department for Companion Animals and Horses provides comprehensive yet specialised medical care comprising prevention, diagnostics and treatment. The university clinics care for emergency cases around the clock, seven days a week.

Sick and injured pets and horses are treated as inpatients, outpatients and even in intensive care by specialist veterinarians (so-called Diplomates) trained to European standard. These recognized specialists in their particular field, together with their teams, take care of their patients' well-being. The experts also work on research projects, which ensures that patients are cared for using the latest findings.

The university clinics are very important for the education of prospective veterinarians and animal caretakers. The close interaction between curative work and research forms the basis of research-oriented teaching.



University Clinics and Platforms

- University Clinic for Small Animals
- Equine University Clinic
- Insemination and Embryotransfer Platform
- Radiooncology and Nuclear Medicine Platform



Ecology and Behaviour

The Department of Integrative Biology and Evolution includes the Research Institute of Wildlife Ecology and the Konrad Lorenz Institute of Ethology.

The main concern of the Research Institute of Wildlife Ecology is the study of behaviour and needs of wildlife in an ecological context. This creates the scientific basis for the efficient protection of nature, of species and of the environment and for a sustainable utilisation of multi-functional landscapes. The institute conducts interdisciplinary and cross-border research at different levels: individuals, populations and ecosystems.

The focal point of research at the Konrad Lorenz Institute of Ethology is on behavioural ecology, in particular on sexual selection. Model organisms such as mammals, birds and fish are studied within their natural habitats, in semi-natural environments, and experiments. Apart from classic behavioural monitoring, molecular genetic and biochemical methods are used to find answers to questions about the value of behavioural adjustment and its underlying physiological mechanisms. Moreover, the Austrian Ornithological Station is part of the Department.

Institutes

- Research Institute of Wildlife Ecology
- Konrad Lorenz Institute of Ethology





Of People and Animals

Reaching across University boundaries, the Messerli Research Institute is dedicated to interdisciplinary research on human-animal interactions and its basis in the fields of animal cognition and behaviour, comparative medicine and ethics. The Institute aims to give people and society scientifically based information to serve as a guide for the defensible treatment of animals and to support them in fulfilling their responsibilities towards animals.

The Messerli Research Institute was founded with support from the Messerli Foundation in Switzerland under the aegis of the University of Veterinary Medicine, Vienna in cooperation with the Medical University of Vienna and the University of Vienna. Experts in the fields of biology, medicine, veterinary medicine, philosophy, psychology and law work together in research and teaching. Their research results constitute an integral component of the academic education; the Institute has an international orientation and offers an interdisciplinary, English-language master's programme in human-animal interactions.

Promoting human and animal health through comparative medical research projects (e.g., in cancer research or allergology) are among the goals of the Messerli Research Institute. Its affiliated "Clever Dog Lab" performs scientific studies on the intelligence of dogs and their interactions with people.



On 24 March 1765, Empress Maria Theresia decreed the founding of a "teaching school for healing livestock diseases", thus laying the cornerstone for the **third veterinary school in the world and the first in the German-speaking realm**. The impetus behind the founding of the Imperial Royal School for Horse Cures and Operations was caring for the horses used in war; at the same time Europe was struck by severe outbreaks of epizootic diseases. From its erstwhile home in Vienna's third district, the University of Veterinary Medicine, Vienna moved to its 15-hectare (37-acre) campus in Floridsdorf in 1996.

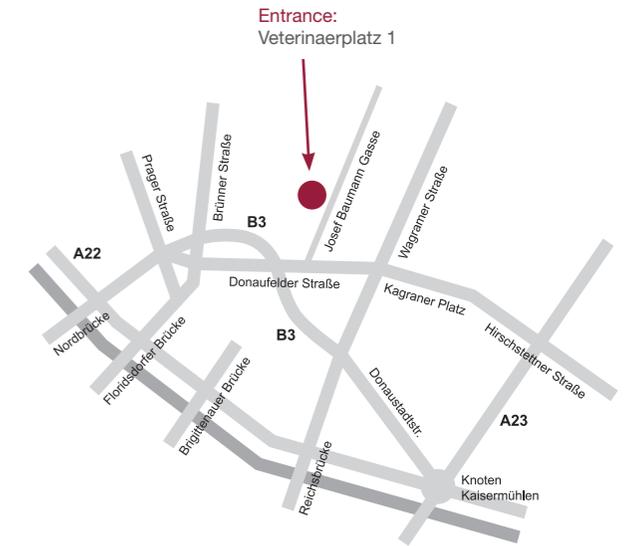
Today the Vetmeduni Vienna is one of the leading veterinary medical, academic education and research establishments in Europe. Its jubilee year 2015 has the motto "250 Years Responsibility for Animals and People". In honour of its quarter millennium, the University is organizing numerous activities and granting glimpses behind the scenes.

www.vetmeduni.ac.at/en/250-years



1765-2015 RESPONSIBILITY FOR ANIMALS AND PEOPLE

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Driving directions:

From the West – Salzburg, Linz, St. Pölten:
A1 to the Knoten Steinhäusl interchange; A21 towards Wien Süd/Graz to the Knoten Vösendorf interchange; A2 and A23 towards Gänserndorf to the Hirschstetten exit; then follow map.

From the South – Villach, Klagenfurt, Graz:
A2 and A23 towards Gänserndorf to the Hirschstetten exit; then follow map.

From the North/Northwest – Tulln, Stockerau:
A22, take the Floridsdorfer Brücke exit, then follow map.

From the East – Schwechat, Hainburg:
highway A4 (Ostautobahn), then A23 towards Gänserndorf to the Hirschstetten exit; then follow map.

Public transportation:

From the U1 Kagraner Platz station or the U6 Floridsdorf station, take tram 26 to the Josef-Baumann-Gasse stop or from the U6 Floridsdorf station, take tram 25 towards Aspern Oberdorfstraße to the Josef-Baumann-Gasse stop, ca. 200 metres to the main entrance

From the U1 Kagran station, take the 27A bus to the Veterinärmedizinische Universität Wien stop or tram 25 towards Floridsdorf to the Josef-Baumann-Gasse stop





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