



University	Study	Research	Animal Hospital
4	12	18	34
Statements: Petra Winter, Michaela Schaff- hauser-Linzatti, Manuela Raith	Statements: Ludwig Huber, Herwig Grimm and Sabine Hammer, Ludwig Großpointner	Statements: Otto Doblhoff-Dier, Armin Saalmüller, Mathias Müller	Statements: Jürgen Rehage, Jörg Aurich, Martin Wagner
5	13	19	35
University	Students	Research	University Clinics
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Sites	News Flashes Study Programmes 2022	Current Research Projects	‘Residency’ Training Programmes
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New Professor- ships		Science Communication	

University





Petra Winter
Rector



Michaela Schaffhauser-Linzatti
Chairwoman of the University Council



Manuela Raith
Vice-Rector for Resources and
Digitalisation

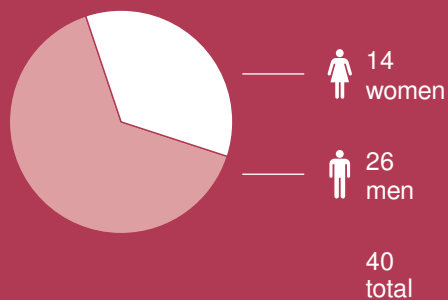
2022 was the year to start groundbreaking projects. The Interuniversity Semmelweis Institute laid the groundwork for a Professorship in Infectious Diseases. In Tyrol, the Professorship in Ruminant Medicine and the Summer School were launched. New in-house projects included vetmeduni+, which aims to develop a future-proof and broad-based organisational structure, and VetFuture Talks. The career model was expanded to include postdoc positions with an option for career positions and tenure track professorships. I would like to welcome our new professors and junior scientists and thank all employees for their commitment to shaping the future of Vetmeduni and all supporters who accompany us on our path.

The present performance report takes stock of our research activities, clinics, teaching and self-government in the past year. It is a manifestation of consistent leadership and sound economic management. While continuing and implementing necessary measures, the University of Veterinary Medicine, Vienna, enters the year 2023 on a secure basis despite all pandemic-related and economic challenges. It is for this reason that I wish to express my sincere thanks to the University Council and my predecessor, Johannes Khinast. As the new Chairwoman of the University Council since 1 March 2023, I am very positive about the future of Vetmeduni.

In negotiations with the Federal Ministry of Education, Science and Research (BMBWF), our university succeeded in obtaining more funds to compensate for inflation in 2022 enabling us to implement the projects planned for the 2022–2024 Performance Agreement Period. In addition to the successful relocation to the newly built Small Animals Clinic, we continued our renewal programme for the university's large-size equipment including the acquisition of a state-of-the-art linear accelerator for radiotherapy in small animals, which became operational towards the end of 2022. I am particularly pleased that the GreenVet Mission has been launched. In addition to numerous measures initiated through EMAS certification, the GreenVet Mission depends on the input of each and every individual. Warm thanks for your contribution to energy conservation and thus to climate protection!

University

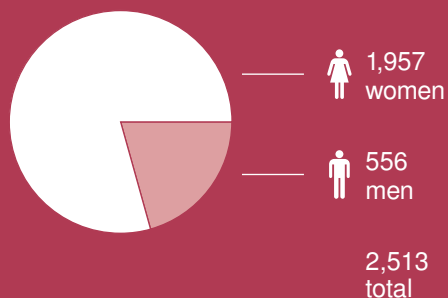
PROFESSORS



ACADEMIC STAFF



STUDENTS



ADMINISTRATIVE AND SUPPORT STAFF



STAFF

1,455



STUDENTS

2,513

total (degree and non-degree students)

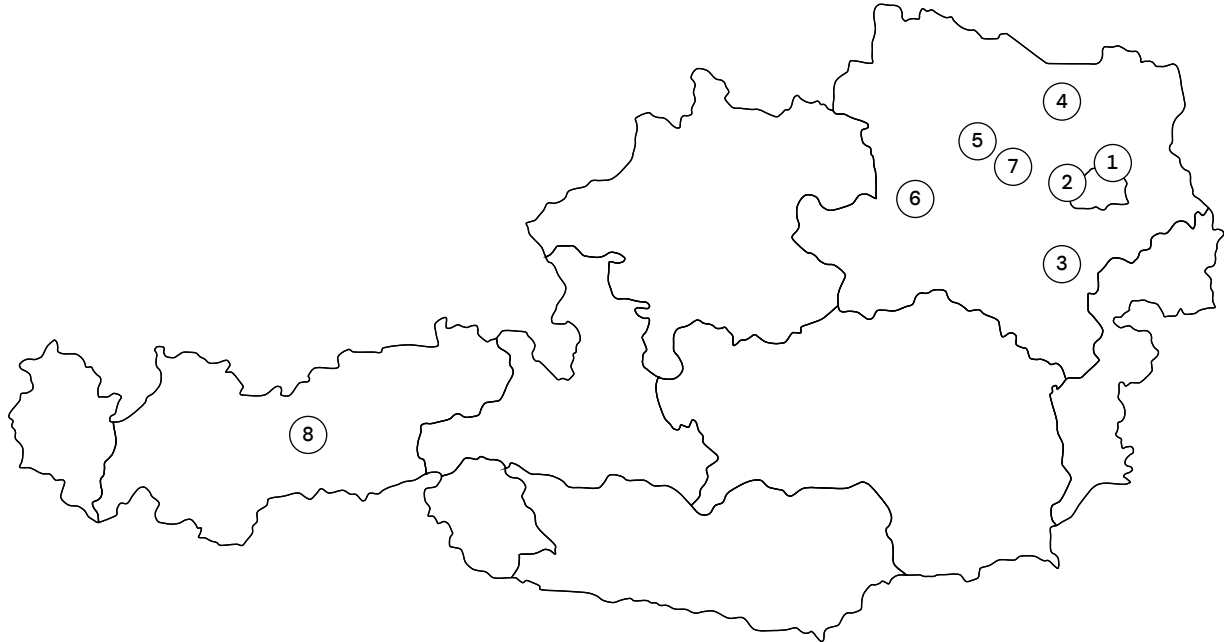


ANIMAL PATIENTS

42,123

total (figures exclude productive poultry and visits for the purpose of herd health management)

Sites



①

Vetmeduni Campus,
Floridsdorf, Vienna

②

Research Institute of Wildlife
Ecology (FIWI), Konrad Lorenz
Institute of Ethology (KLIVV),
Ottakring, Vienna

③

VetFarm
Kremesberg, Pottenstein,
Lower Austria

- Rehgras estate, Furth/Triesting
- Haidlhof estate, Bad Vöslau
- Medau estate, Berndorf

④

Wolf Science Center (WSC),
Ernstbrunn, Lower Austria

⑤

Satellite of the Austrian
Ornithological Centre (AOC),
Seebarn / Grafenwörth,
Lower Austria

⑥

Reproduction Center Wieselburg
(RCW), Wieselburg, Lower Austria

⑦

Interuniversity Department
for Agrobiotechnology (IFA Tulln,
Lower Austria), together with the
Vienna University of Natural Resources
and Life Sciences (BOKU) and the
Vienna University of Technology

⑧

Satellite Facility for Ruminants in
the Alpine Region, Innsbruck, Tyrol



Research Mentoring Programm

Up-and-coming scientists at Vetmeduni are supported by the Research Mentoring Programme. Since September 2022, 17 young scientists (14 women, 3 men) with outstanding potential have been given the opportunity to expand their professional and personal skills and to network for one year. Entering into an exchange with their mentors offers them a wealth of experience and knowledge.

The programme is rounded off with workshops on topics such as positive leadership, interview and application training, professional conduct and strategic career planning in order to assist young scientists on their career path.

VetmedRegio Regionalisation Initiative

Networking, information and exchange leading to strengthening veterinary care in Austria are the goals of Vetmed-Regio. In 2022, this was achieved with workshops at the Science Academy and Climathon in Lower Austria, the Mallnitz Days in the Hohe Tauern National Park in Carinthia, the networking meeting 'Upper Austria meets Vienna' and numerous other initiatives. For the first time, together with the Spanish Riding School in Piber, our Vetmeduni took part in the Graz Children's University (KinderUniGraz) for the purpose of fostering young talents. In Tyrol, interested young people had the opportunity to learn more about the exciting professional field of veterinary medicine as part of the VetINNSights Summer School. This summer school is based on an agreement concluded between the state of Tyrol and Vetmeduni, which includes numerous other measures (such as the establishment of a new specialisation track 'Ruminant Medicine in the Alpine Region' or an endowed professorship in Innsbruck).



For other measures in the federal states see:
www.vetmeduni.ac.at/de/universitaet/vetmedregio

Vetmeduni Alumni

Vetmeduni strengthened its alumni network in 2022 with various initiatives, including: an Alumni Lounge, which offered an exclusive guided tour to the new Small Animals Clinic at the Campus Open Day; an alumni information booth; a photo wall; as well as an alumni goodie bag at the graduation ceremony. Vetmeduni was also present at the annual meeting of the Association of Austrian Small Animal Vets in Salzburg with a booth and raffle for alumni at the VET AUSTRIA 2022 fair.



Alumni information booth in front of the Great Hall of Vetmeduni.



Premiere for the cooperation between Vetmeduni, Spanish Riding School and KinderUniGraz.

Cooperation between the Austrian Armed Forces and Vetmeduni

In summer 2022, Defence Minister Klaudia Tanner and Rector Petra Winter signed an agreement on closer cooperation between the two entities. This is intended to enhance mutual exchange in training and professional development. Dovetailing classes, excursions and events will help attract young people to veterinary medicine and militia service and open up possible career pathways for graduates in the Austrian Army. The University of Veterinary Medicine, Vienna, and the Austrian Army look back on 40 years of collaboration. Many projects have been implemented so far, including research into military dogs and pack animals as well as food technology.



For more information go to:
<https://www.vetmeduni.ac.at/universitaet/infoservice/presseinformationen-2022/kooperation-zwischen-bundesheer-und-veterinaermedizinischer-universitaet-wien>



Minister of Defence Klaudia Tanner (left) and Petra Winter, Rector of Vetmeduni (right).



The press conference was followed by an exclusive guided tour including a visit to the laboratory of the Institute of Microbiology of Vetmeduni.

SDG Sustainability Campaign

As part of its sustainability campaign, Vetmeduni presented the UN Sustainable Development Goal No. 15 'Life on Land'. One of the highlights of the diverse communication programme on this Sustainable Development Goal (SDG) was again the successful online VetmedTalk format, in which internal and external experts discussed the importance of air, freshwater, grassland and forest, presented current research results and answered questions from the audience.



For an overview of all VetmedTalks held so far go to: www.youtube.com/playlist?list=PLQkwsVETjy1y79_aUiguMjcS6eEVZc2RX



For an overview of SDG measures taken go to: www.vetmeduni.ac.at/universitaet/profil/sustainable-development-goals





WORLDWIDE SUBJECT RANKINGS: TOP RESULTS FOR VETMEDUNI

In 2022, the University of Veterinary Medicine, Vienna, was again among the top performers in the global ranking of academic subjects, also known as Shanghai Ranking. Scoring the 10th rank in the subject of 'Veterinary Sciences', Vetmeduni is an integral part of internationally leading universities. With its 26th place in the Quacquarelli Symonds world university rankings by subjects, Vetmeduni remained within the top 50 universities worldwide in the year under report.



GOLDEN DOCTORATES AWARDED

In November 2022, the Golden Doctorates were presented to those who completed their doctorate 50 years ago. Due to the pandemic, the graduates of 1970, 1971 and 1972 were grouped together.

New Professorships



Astrid Holzer
Fish Health



Peter M. Roth
Computational Medicine



Eva Schnabl-Feichter
Small Animals Surgery

New Assistant Professorship



Karen Wagener
Infection and Inflammation of
the Bovine Reproductive Tract

New Endowed Professorship



Johannes Lorenz Khol
Ruminant Medicine in the
Alpine Region



For portrayals of the new professors
in the VETMED Magazine go to:
www.vetmeduni.ac.at/vetmedmagazin

Study





Ludwig Huber
Head of the Department of Interdisciplinary Life Sciences



Herwig Grimm and Sabine Hammer
Chairman and Deputy Chairwoman of the Senate of the University of Veterinary Medicine, Vienna



Ludwig Großpointner
2nd Deputy Chairman of the Student Union of the University of Veterinary Medicine, Vienna (HVU)

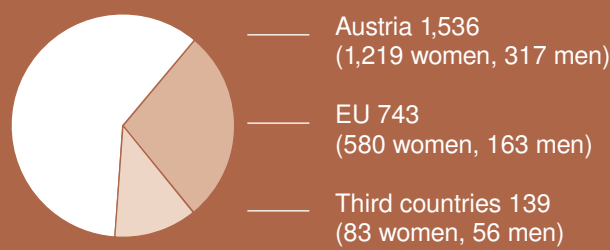
For Department 5, the year 2022 was marked by major scientific achievements in terms of successful publications and attracting projects of excellence. There were significant changes among our staff. After Melanie Dammhahn left the Research Institute of Wildlife Ecology at the end of April, she was succeeded by Claudia Bieber as the new head of the institute. We thank her for assuming this challenging task. Having fulfilled the qualification agreement and been confirmed by the §99 Commission, Alice Auersperg was appointed Associate Professor to become the fourth professor at the Messerli Research Institute. We thank Leo Fusani for his proficient management of the department in the past period.

The last elections for the Senate brought about changes in its composition. Our special thanks go to all members of the Senate for their constructive work during the previous term. The new Senate and its chair duo are committed to helping prepare our university for the future and highlight its social relevance. 'The more challenging the times for universities, the greater the need for joint and intensive commitment in its official bodies.' The Senate is an essential platform for discussion and decision-making and wants to meet people's interest in active cooperation when it comes to resolving problems within change management processes. The VetFuture-Talks stood at the beginning of these processes to be finalised under vetmeduni+.

The past year 2022 was characterised by the return to in-class teaching (with a number of hybrid formats still being offered). For many students this was the first time they could be in a packed lecture hall of Vetmeduni! We are also very pleased that numerous events and festivities were held, with the 'Bergfest' being a special highlight. Together these have all contributed to an optimistic outlook for 2023 ... At the beginning of July 2022, the chair of HVU changed. I would like to take this opportunity to thank the previous chair for the smooth handover and my colleagues in the chair, Thomas and Benjamin, for their great cooperation.

Study

MATRICULATED STUDENTS BY COUNTRY OF ORIGIN



APPLICANTS/ADMISSIONS 2022 (FOR THE 2022/2023 ACADEMIC YEAR)	APPLICANTS			QUALIFIED FOR ADMISSION		
	WOMEN	MEN	TOTAL	WOMEN	MEN	TOTAL
Diploma Programme in Veterinary Medicine	959	181	1,140	210	39	249
Bachelor's Programme in Biomedicine and Biotechnology	154	49	203	60	22	82
Master's Programme in Comparative Biomedicine	22	2	24	15	2	17
Interdisciplinary Master's Programme in Human-Animal Interactions (IMHAI)	11	2	13	11	2	13
Master's Programme in Precision Animal Health	1	1	2	1	1	2
Total	1,147	235	1,382	297	66	363

No figures are available for the Master's Programmes in Wildlife Ecology and Wildlife Management as well as Evolutionary Systems Biology since admission to these programmes is not managed by Vetmeduni.

No admission procedure took place for the Bachelor's Programme in Equine Sciences for the 2022/2023 academic year since this programme is about to expire.

Courses of Study

Diploma Degree Programme
Veterinary Medicine

Bachelor's Programmes
Biomedicine and Biotechnology
Equine Sciences¹

Master's Programmes
Master's Programme in Comparative
Biomedicine – Infection Biomedicine
and Tumour Signalling Pathways

Interdisciplinary Master's Programme
in Human-Animal Interactions (IMHAI)

Master's Programme in Precision
Animal Health

Master's Programme in Wildlife
Ecology and Wildlife Management²

Master's Programme in Evolutionary
Systems Biology³

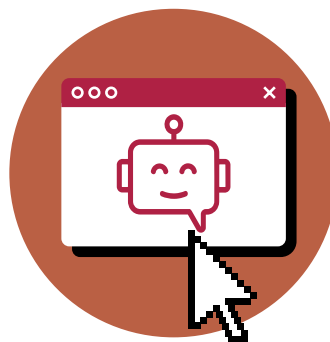
Doctoral Programme
Veterinary Medicine

PhD Programme

¹ in cooperation with the University of Natural Resources and Life Sciences (BOKU), Vienna. This programme will be phased out. It is no longer possible to be (re-)admitted to this programme.

² in cooperation with the University of Natural Resources and Life Sciences (BOKU), Vienna.

³ in cooperation with the University of Vienna.



VetBot – the chatbot of Vetmeduni

With the start of the admission procedure in May 2022, a chatbot called VetBot was made publicly available on Vetmeduni's website. Its implementation is part of the project 'Mobile First for Students'. As one of 35 innovative digital university projects, it was selected in the call for proposals on 'digital and social transformation in higher education' and financed by the Federal Ministry of Education, Science and Research. The app is designed to simplify everyday study and provide answers to study-related questions at any time. From its launch until December 2022, the chatbot received roughly 3,700 inquiries or 15 inquiries on average per day. By the end of 2022, VetBot had provided answers to over 600 thematic questions and is being continuously expanded.



Establishment of new specialisation modules at the Innsbruck satellite facility

In the summer semester 2022, 16 10th semester students completed a pilot project for the new specialisation track 'Ruminant Medicine in the Alpine Region'. For three weeks each, they worked together with practising veterinarians in Tyrol for their immersion training in clinical practice. The independent specialisation module 'Ruminant Medicine in the Alpine Region' (main module) and 'Animal Health, Food Safety and Alpine Pasture Farming' (subsidiary module) were prepared for their start in the summer semester 2023 with cooperation agreements concluded with four Tyrolean vet practices.



Fresh Impetus for Teaching

The 'kick-start breakfast' series (Impulsfrühstücke) offers inputs by national and international experts on pedagogy and didactics and invites participants to discuss the topics presented. In 2022, these events took place online and the recorded videos were made available to interested parties at the university's media library Vetmediathek. The 2022 topics included:

- Learning Analytics
Stefanie Lindstaedt, Carla Souta Barreiros,
Graz University of Technology
- Quantitative Analysis of Exams /
Indicators MC Questions
Andreas Möltner, Competence Centre for Exams
in Medicine, Medical Faculty Heidelberg
- Virtual Slaughterhouse Simulator
Alessandro Seguino, University of Edinburgh
- Blending Innovation, Pedagogy and Evidence
Sarah Baillie, University of Bristol
- Post-Review Process of Q Exam
Annika Posautz, Vetmeduni

New: Master's Programme Digitalisation in Animal Health Management – Precision Animal Health

The master's programme Digitalisation in Animal Health Management – Precision Animal Health was introduced in the winter semester 2022/2023. Up to 20 places per academic year are allocated via an admission procedure. The programme is designed for students who wish to enhance their knowledge at the interface between veterinary medicine, animal husbandry and modern information-based technologies. The programme will start in the winter semester 2023/2024.



Education Awards

At the Teaching Vets Symposium #8, Pierre Lekeux, Professor Emeritus of Physiology at the University of Liège (Belgium), Director of ESEVT and Coordinator of EAEVE, gave the keynote speech on the application of artificial intelligence and digital tools in veterinary training. To give more weight to students, they took over the nomination and voting for the teaching awards. In addition, the categories and names of the awards were revised. Ten nominees presented their teaching to the audience in stimulating video presentations of one minute each. This was supplemented by three selected projects nominated for the Vetucation® Award. The winners were determined by online voting. The event closed with a ceremony in which the awards, supported by the City of Vienna, were presented in the categories of Teaching, Instructor and Students of the Year as well as the Vetucation® Award and Student Award of the Students' Union.



For all award winners go to:
www.vetmeduni.ac.at/teachingvets



Lateral Entry into the Study of Veterinary Medicine

For the first time, applicants who are enrolled in an equivalent veterinary degree programme at a recognised post-secondary educational institution in Austria or abroad now have the opportunity to be admitted to a higher semester at Vetmeduni. 17 applicants were thus able to continue their studies at Vetmeduni in the winter semester 2022/2023.

Graduates

2021/2022	WOMEN	MEN	TOTAL
Diploma Programme in Veterinary Medicine	154	26	180
Bachelor's Programme in Biomedicine and Biotechnology	13	3	16
Bachelor's Programme in Equine Sciences ¹	8.04	0	8.04
Master's Programme in Comparative Biomedicine – Infection Biomedicine and Tumour Signalling Pathways	13	1	14
Interdisciplinary Master's Programme in Human-Animal Interactions (IMHAI)	6	0	6
Master's Programme in Wildlife Ecology and Wildlife Management ²	2.1	0.8	2.9
Master's Programme in Evolutionary Systems Biology ³	0.28	0	0.28
Doctoral Programme in Veterinary Medicine	27	10	37
PhD Programmes	16	5	21
Total	239.42	45.8	285.22

Note: In the case of cooperation partners, graduates are counted according to the allocation formula.

¹ Bachelor's Programme in Equine Sciences
0.67 Vetmeduni; 0.33 University of Natural Resources and Life Sciences (BOKU).

² Master's Programme in Wildlife Ecology and Wildlife Management
0.1 Vetmeduni; 0.9 University of Natural Resources and Life Sciences (BOKU).

³ Master's Programme in Evolutionary Systems Biology
0.28 Vetmeduni; 0.72 University of Vienna.

Research





Otto Doblhoff-Dier
Vice-Rector for Research and
International Relations

The year 2022 did not bring any relief to international science. The restrictions caused by the pandemic were almost seamlessly replaced by a pointless war of aggression in the centre of Europe. Price hikes, supply bottlenecks and further travel restrictions were among the consequences. Nevertheless, our staff achieved great research results, submitted exciting projects and published excellent papers. We were able to continue the renewal of our research infrastructure, while the newly opened Small Animals Clinic upgraded the basis for excellent clinical research. The posting of the PhD / Doctoral Programme in One Health has introduced yet another focus on this important field.



Armin Saalmüller
Head of the Department
of Pathobiology

Several qualification positions were filled in 2022. Employees received prestigious prizes and awards, including Christof Bertram, Astrid Digruber, Anna Feix, Ines Garces, Sandra Högler, Tanja Limberger, Emil Lagumdziec and Stelli Stancheva. New scientific projects were begun in the fields of parasites and ruminants in the Alpine region, AI-based risk management to develop novel approaches to microbial risk assessment and management, digital pathology, impact of microplastics on health and signalling pathways in tumour research. The majority of these projects is carried out within the framework of national and international collaborations and published in top-level journals.



Mathias Müller
Head of the Department
of Biomedical Sciences

The Department is proud to announce that Professor Veronika Sexl was elected as the first female Rector of the University of Innsbruck. Our campus will miss this renowned colleague and wishes her every success in her new role. Alongside the projects that are presented separately, the Institute of Pharmacology and Toxicology and the Institute of Medical Biochemistry received third-party funds for translational cancer research. The Nutrition Physiology Unit launched three interdisciplinary projects to promote intestinal health in livestock through probiotics and herbal ingredients. The Institute of Computational Medicine combines sustainable animal health with methods of artificial intelligence. We wish the applicants every success!

Research



790

ACADEMIC STAFF
TOTAL



1,008

SCIENTIFIC
PUBLICATIONS TOTAL

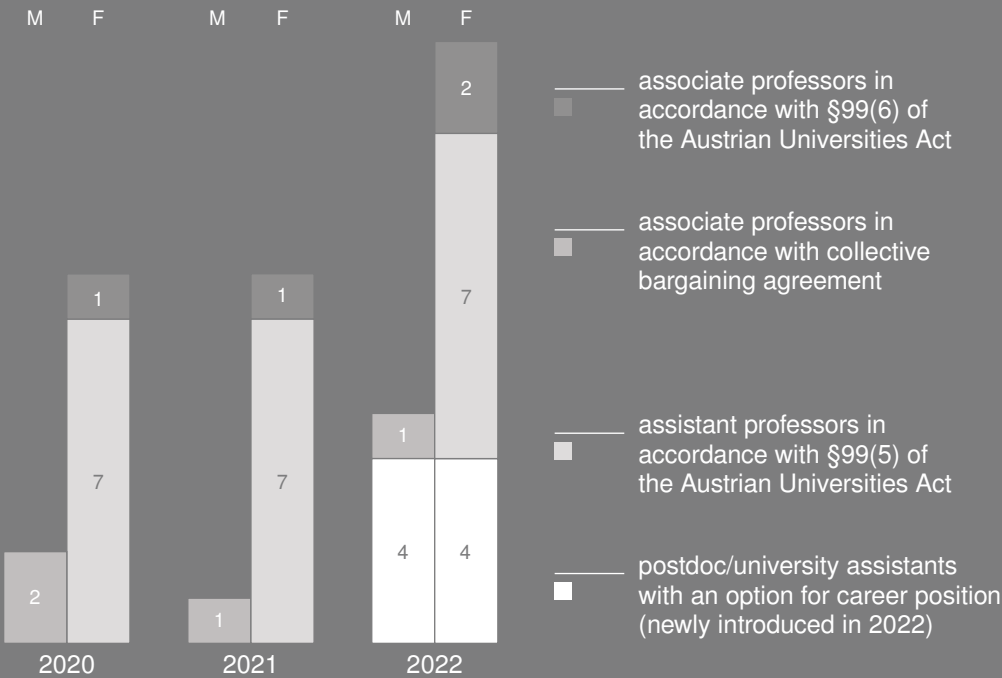
PROFESSORS 2022



ACADEMIC STAFF 2022



CAREER POSITIONS



The great variety of science at Vetmeduni can be seen from the following selection of research projects either approved or continued in 2022



Fibre in chicken diet – *Campylobacter jejuni*: bonus or burden?

Project leader: Wageha Awad
Funding agency: Austrian Science Fund (FWF)

Campylobacter jejuni is the most common cause of food-borne bacterial enteritis worldwide, primarily associated with poultry. A high prevalence of *C. jejuni*, together with an increasing level of antimicrobial resistance, became a serious problem in human medicine whereas in chickens it has deleterious effects on gut health. Diet may alter the resistance to infection as it influences the microbial dynamics of the gut. Unravelling the link between feeding strategies and gut physiology in the context of a *Campylobacter* infection will help to elucidate the cascade of events that influences *Campylobacter* colonisation. Moreover, there are no effective control measures, and there is a need to identify key events in the farm-to-fork production chain that are appropriate targets for prevention and control to reduce food-borne campylobacteriosis. The scope of the project is to crosslink functions of dietary fibre (DF) with the main zoonotic foodborne pathogen, *C. jejuni*. Finally, elucidating the mechanisms by which DF influences chicken gut health will help to combat enteric pathogens via diet formulation strategies. The project aims to explore and resolve fundamentals of this interaction for the benefit of animal and human health.



Polygene adaptation

Project leader: Neda Barghi
Funding agency: Austrian Science Fund (FWF)

Many traits such as height in humans are polygenic, meaning many genes determine the trait variation. After environmental changes, populations adapt using a subset of these genes. But the contribution of each gene is so small that it is challenging to detect. Despite its importance, little is known about polygenic adaptation. The SFB project 'Polygenic adaptation', led by Neda Barghi, brings together scientists from Vetmeduni, UniWien, ISTA and GMI to tackle this challenge. We will combine theoretical modelling and empirical data to establish new methods for the analysis of genomic data. We will expose fruit flies to different environmental stressors and using genome sequencing and high throughput phenotyping we will investigate the patterns of genomic and phenotypic change in evolving populations. The empirical data generated at the Vetmeduni will benefit from the great interaction of theoreticians and empirical researchers in this SFB. This project has a high potential for substantial scientific advances in the field.



aWISH – animal Welfare Indicators at the Slaughter-House

Project leader: Johannes Baumgartner
Funding agency: EU (Commission of the European Union)

In addition to farm surveys, animal welfare monitoring of our livestock will increasingly take place at slaughterhouse level in the future. Slaughterhouses constitute a striking bottleneck in the production chain, while suitable animal welfare indicators for live animals intended for slaughter and their carcasses enable us to draw certain conclusions on animal welfare problems throughout the entire lifespan. Automated sensor- and AI-based methods as well as better use of existing data sources might help the efficient implementation of this new approach in slaughterhouses. A well-coordinated feedback system could be used to inform livestock farms and transport companies about problems and options for improvement, thus enabling broad-based improvements in animal welfare. The Institute of Animal Welfare Science (ITT) is a member of a consortium of 24 partners from 13 EU countries working together on this issue within the Horizon Europe aWISH (animal Welfare Indicators at the SlaughterHouse) project focusing on pigs and poultry for fattening. ITT will collaborate with the Austrian slaughterhouse Großfurtner GmbH and two technology developers on a definition of suitable animal welfare indicators for slaughtered pigs and on the development and validation of appropriate automated monitoring technologies. Other missions of the aWISH project include feedback to the farms of origin and exchange of knowledge with project partners and stakeholders along the process chain.



Identification of cell populations in canine intestinal organoids and primary epithelium for modelling of acute and chronic gastrointestinal diseases

Project leader: Georg Csukovich
Funding agency: Austrian Academy of Sciences (ÖAW)

Gastrointestinal diseases in dogs are of great importance in veterinary medicine, comprising chronic conditions such as inflammatory bowel disease (IBD) as well as acute diseases such as acute haemorrhagic diarrhoea syndrome (AHDS). The use of three-dimensional intestinal organoids provides an opportunity to fill a gap in research and develop suitable *in vitro* models for gastrointestinal research. For the purpose of using organoids effectively, the cell types present in the primary intestinal epithelium and in corresponding organoids will be identified by means of scRNA sequencing. In a second step, organoids from IBD patients and healthy control animals will be generated by lentiviral transduction of a redox-sensitive GFP sensor. The organoids allow us to investigate whether IBD organoids differ from healthy ones in respect of their redox balance. In the future, we will use organoids to learn more about the specifics of the canine intestines and the mechanisms underlying diseases like IBD or AHDS.



Panacea butyrate? Evaluation of production, effects and therapeutic potential in the equine colon

Project leader: Franziska Dengler
Funding agency: Austrian Agency for Education and Internationalisation (OeAD)

The horse's digestive tract is a complex, highly sensitive ecosystem and a common cause of serious, occasionally life-threatening diseases summarised under the term 'colic'. Nevertheless, only a limited arsenal of therapeutic or prophylactic measures has been available so far. As in humans, the microbial colonisation of the gastrointestinal tract has recently become the focus of attention as a major factor for intestinal health in horses. There is reason to believe that the products of resident bacteria (microbiota), in particular short-chain fatty acids (SCFA), may have protective effects. Within the Citizen Science Project, researchers will explore the composition of microbiota in healthy horses, its changes caused by everyday influences and any possible connection between the SCFA produced and (intestinal) health. In addition, the effect of SCFA on the equine intestinal epithelium will be investigated, using equine colonic enteroids *in vitro*, and possible therapeutic strategies will be tested.



MicRisk2030 – a novel path for microbial risk assessment and management towards sustainable food systems: employing AI-based risk management concepts from stochastic finance

Project leader: Monika Ehling-Schulz
Overall project coordination: Sophia Johler, University of Zurich
Funding agency: SNSF – Swiss National Science Foundation

The UN's Sustainable Development Goals, the so-called SDGs, require a profound transformation of existing food systems. For this purpose, we need innovative approaches to microbial risk analysis which not only strike a balance between food safety and security, but also take into account health and environmental costs and minimise food waste. In a transdisciplinary project funded by SNSF, researchers of the University of Veterinary Medicine, Vienna (Functional Microbiology), of the University of Zurich (Food Safety), the ETH Zurich (Financial Mathematics) and SUPSI – University of Applied Sciences of Southern Switzerland (Ecology) are combining their complementary expertise to seek innovative approaches. In so doing, they transfer knowledge from AI-based risk management in finance to a microbial context. Using the *Bacillus cereus* group as a model, the participating researchers will develop a novel framework for risk assessment and risk management fed with data from comprehensive field, wet lab and *in silico* experiments to enable the integration of risks to humans, animals and the environment.



Cure4Aqua – Curing EU aquaculture by co-creating health and welfare innovations

Project leader: Astrid Holzer
Funding agency: EU (Commission of the European Union)

Farmed fish is a significant source of protein. Due to its low CO₂ footprint, it plays a key role in building a sustainable food system. A strategic and long-term approach to the sustainable growth of EU aquaculture is more topical than ever. Effective pathogen control remains one of the biggest challenges facing the sector. Through active collaboration with key stakeholders, the *Cure4Aqua* project aims to improve aquatic animal health and welfare and support environmentally friendly and safe production. Within this framework, Astrid Holzer leads a WP that a) links the monitoring of environmental parameters, animal welfare and fish health and uses AI technologies to make predictions on management strategies and treatments; b) develops innovative new markers and semi-synthetic *in vitro* cultivation systems to reduce animal experiments. In collaboration with the University of Aberdeen (Scotland, UK), a vaccine against proliferative kidney disease in trout is also being developed – a disease that has become widespread due to global warming and constitutes a major threat to both natural and farmed populations.



Tendon-on-a-chip: a biomimetic tendinopathy model

Project leader: Florian Jenner
Funding agency: Austrian Science Fund (FWF)

Tendon disorders are among the most common orthopaedic problems. Injured tendons do not regenerate, but remain scarred and are subject to a high reinjury rate and chronic problems of restricted mobility, pain on exertion and reduced quality of life. Current treatment methods cannot restore the full function of injured tendons. This places a major burden on patients affected by the disorder and on society as a whole, with costs amounting to billions of euros. In order to develop better therapies, researchers need suitable models to study the molecular and cellular biology of tendon disorders. Mainly animal models are currently used for this purpose, which generate ethical concerns and often lack success in translating findings into clinical therapy. This project aims to create a microfluidic model (tendon-on-a-chip). It mimics the biological niche of tendons (including the three-dimensional matrix), the mechanical stress and interaction of immune cells during the inflammation associated with tendon pathologies, thus helping to replace animal experiments. This model is used to investigate the mechanisms of tendon disorders for the purpose of developing optimised treatment methods.



The dark side of light: light pollution and early maternal investment

Project leader: Katharina Mahr
Funding agency: Austrian Science Fund (FWF)

Early Maternal Investment (EMI) describes how mothers regulate the transfer of nutrients and hormones to the embryo, depending on their health, nutritional status or certain environmental conditions. This is how females of many species can, to a certain degree, prepare their offspring for the conditions in their environment. Light pollution, which has increased rapidly in recent decades, distorts perception of the environment with implications for the physiology, behaviour and health of living beings. How light pollution affects EMI and eventually reproductive success is largely unknown to date. Using house sparrows (*Passer domesticus*), which are found worldwide and show high plasticity, we will investigate in collaboration with Herbert Hoi (KLIVV) and Ádám Lendvai (University of Debrecen) how and whether light pollution controls maternal physiology, EMI and parental behaviour. We will test whether there is a sensitive period for light pollution-induced changes in nestlings and the role of EMI in mediating these effects. Unlike mammals, there is no exchange between the mother and the embryo/foetus after egg laying, which makes the avian egg an ideal model.



Ensiling to improve the nutritional value of domestic forage crops as sources of protein for pigs

Project leader: Barbara Metzler-Zebeli
Funding agency: Federal Ministry of Agriculture, Regions and Tourism

Soy is still a widely used protein feed for pigs. As part of its Protein Strategy 2020+, Austria wants to become less dependent on soy imports. Domestic small-grain legumes, such as lucerne and white clover, are potential protein sources in pig feeding due to their good protein quality in the young-plant stage. Lucerne and white clover are grown as catch crops for soil improvement in many farms, and can be made usable throughout the year by ensiling. Moreover, lucerne is a drought-resistant fodder plant that may have site advantages in increasingly dry summers. However, scientific data are scarce to date. This project aims to produce and assess lucerne/white clover silage as a regional alternative protein feed for piglets and fattening pigs. Overall, the project carried out in collaboration with the Institute of Animal Nutrition and Functional Plant Compounds (Thomas Hartinger) and HBLFA Raumberg-Gumpenstein will help enhance resilience, independence and sustainability in pig feeding.



PLFDoc: Precision Livestock Farming

Project leader: Michael Iwersen
Project partners at Vetmeduni: Maciej Oczak, Daniela Klein-Jöbstl
Funding agency: Austrian Science Fund (FWF)

The PLFDoc doctoral programme (cooperation of the University of Applied Sciences Upper Austria - Campus Hagenberg, Vienna University of Technology and University of Veterinary Medicine, Vienna) will contribute to greater sustainability in production and improved animal welfare in agriculture throughout Austria and the European Union by applying modern methods of data analysis. The research focus of the doctoral programme is on application-oriented fundamental research, in particular on the application of new methods of explainable artificial intelligence (XAI) and computer vision (CV) for monitoring births in cattle and pigs. During the four-year project period, new management methods and intervention strategies will be developed to be used by farmers and veterinarians within the framework of Precision Livestock Farming. Early detection of birth difficulties is intended to prevent losing young animals and avoid sequelae in dams, thus making an active contribution to improving animal health and well-being.



HOLSTEIN: holistic approach to sustainable assurance of farm animal health in Lower Austria

Project leader: Peter M. Roth
Funding agency: Office of the Lower Austrian Government

In livestock medicine, the primary approach is curative. However, there is an increasing trend towards preventive approaches with the aim of improving general animal health through permanent monitoring. To this end, a variety of sensor technologies are used to collect and evaluate data 24/7. HOLSTEIN, a project funded by the state of Lower Austria, aims to jointly develop and evaluate modern technologies for both applications (holistic approach). If, in addition, data are stored in a structured manner and processed centrally in a suitable form, information exchange can be improved and simplified, which facilitates cooperation – even among people in different places. This enables better use of existing resources, on the one hand, and forms the basis for new and modern working time models in a changing socio-economic environment, on the other. In a two-stage process, the project is first evaluated at the VetFarm in Kremesberg and then rolled out in practice in a pilot exercise. This will be done in close coordination between actors from IT, livestock medicine and herd health management.



Leaving life: hospice and palliative care in small animal practice

Project leader: Svenja Springer
Funding agency: Gut Aiderbichl Stiftung

It is not only people who are getting older – our pets are, too. Today's small animal practice allows for a level of patient care that is hardly inferior to that of human medicine. Moreover, pets are increasingly regarded as members of the family. Against this backdrop, several questions are to be answered: What are the moral challenges faced by veterinarians in hospice and palliative care of chronically ill and old patients? How are they managing the shift from a primarily 'healing' to a 'caring' veterinary medicine in this context? And to what extent does this change affect their normative sense of identity? In order to answer these and other questions, Svenja Springer and Christian Dürnberger conduct a qualitative interview study at the Messerli Research Institute (Unit of Ethics and Human-Animal Studies) to serve as a basis for ethical reflections on the vets' moral attitudes and convictions in respect of end-of-life care, euthanasia and natural death of animal patients.



Imaging and gene expression analysis of *Pneumocystis f. sp. suis* infected pig respiratory cell cultures

Project leader: Christiane Weissenbacher-Lang
Funding agency: Austrian Science Fund (FWF)

Recent studies highlight the host-specific nature of the *Pneumocystis* fungus and provide information about possible requirements for its cultivation in cell cultures, the success of which has been limited so far. The use of respiratory tissue from an appropriate host is likely to be crucial. Our study is intended to answer the following questions: Does the poorly studied pneumocystis pathogen in pigs, *Pneumocystis f. sp. suis* (*P. suis*), show strict host specificity to and strong nutritional dependence on the porcine lung tissue? How severely does this fungus damage the tissue? Together with our cooperation partners - the Histology Working Group, the Institute of Immunology, and the University Clinic for Swine -, we will establish cell culture systems from porcine respiratory tract tissue, obtain *P. suis* from the lungs of immunosuppressed pigs and grow it on the cell culture systems. The developmental stages of the fungus and the lesions of the lung tissue caused by them will be imaged by electron microscopy. Gene expression analysis will be used to identify basic biological functions and help understand the complexity of fungus-host-interactions.

Newly Approved Research Projects at a Glance

FUNDING AGENCY	PROJECT TITLE	PROJECT LEADER
Adalbert Raps Foundation	Combined analysis of LC-MS/MS and quantitative PCR for the determination and botanical tracing of pyrrolizidine alkaloid contamination in oregano and cumin	Karin Schwaiger
Office of the Lower Austrian Government	Holistic approach to sustainable assurance of farm animal health in Lower Austria (HOLSTEIN)	Peter M. Roth
Office of the Upper Austrian Government	Improving animal welfare and health by fermented herbal extracts in weaned and fattening pigs	Barbara Metzler-Zebeli
Office of the Upper Austrian Government	Mosquito Monitoring Upper Austria – 2022	Hans-Peter Führer
Office of the Tyrol Government	Ruminant medicine in the Alpine region	Johannes Khol
Association for the Study of Animal Behaviour	The influence of the abiotic and biotic environment on cognition and life histories	Stefan Fischer
Association for the Study of Animal Behaviour	Portable touchscreen-based platform for behavioural testing of pet dogs	Friederike Range
BIOS Science Austria – Association to promote Life sciences	Cold-tolerant clostridia in livestock: prevalence, pathogenicity, and role as spoilage microorganisms	Samart Dorn-In
BIOS Science Austria – Association to promote Life sciences	Alpine cattle farming and tourism: potential for conflict	Herbert Hoi
Federal Ministry of Agriculture, Forestry, Regions and Water Management	Study on reticuloruminal motility monitoring as an aid to the early diagnosis of hypocalcaemia in cattle	Thomas Wittek
Federal Ministry of Agriculture, Forestry, Regions and Water Management	Optimising the control of <i>Fasciola hepatica</i> , <i>Ostertagia ostertagi</i> and <i>Dictyocaulus viviparus</i> infections in cattle on Alpine pastures in Tyrol/Austria and monitoring of anthelmintic resistance as contribution to food safety	Barbara Hinney
Federal Ministry of Agriculture, Forestry, Regions and Water Management	Risk assessment and prevention of highly contagious mastitis pathogens in Alpine dairy farming exemplified by bovine <i>Staphylococcus aureus</i>	Tom Grunert

Note: This table presents an excerpt from those research projects that were granted funding in 2022. Owing to confidentiality provisions not all projects may be published.

FUNDING AGENCY	PROJECT TITLE	PROJECT LEADER
Federal Ministry of Agriculture, Forestry, Regions and Water Management	Ensiling to improve the nutritional value of domestic forage crops as sources of protein for pigs	Barbara Metzler-Zebeli
Federal Ministry of Agriculture, Forestry, Regions and Water Management	Evidence for the sustainability of the reintroduction of the Ural Owl (<i>Strix uralensis</i>) in Lower Austria	Richard Zink
Federal Ministry of Agriculture, Forestry, Regions and Water Management	Detection of climatic stress, especially heat stress, in calves using digital technologies	Daniela Klein-Jöbstl
Federal Ministry of Agriculture, Forestry, Regions and Water Management	Real-time video analysis for monitoring calving and farrowing on farms	Michael Iwersen
Federal Ministry of Social Affairs, Health, Care and Consumer Protection	Creation of the theory course module of the certificate course for the training of 'official auxiliaries'	Peter Paulsen
Christian Doppler Research Association (CDF)	Christian Doppler Laboratory for an optimised prediction of vaccination success in pigs	Kerstin Mair
Chulabhorn Royal Academy	Novel approaches to alleviating opioid-induced side effects in etorphine-immobilised ungulates	Gabrielle Stalder
EU (Commission of the European Union)	LIFT: lifting farm animal lives – laying the foundations for positive animal welfare	Jean-Loup Rault
EU (Commission of the European Union)	Cure4Aqua – Curing EU aquaculture by co-creating health and welfare innovations	Astrid Holzer
EU (Commission of the European Union)	Next generation vaccines and diagnostics to prevent livestock reproductive diseases of worldwide impact	Christiane Riedel
EU (Commission of the European Union)	Development of an analytical and data processing tool for EuFMDiS model output to support FMD contingency planning	Tatiana Marschik
EU (Commission of the European Union)	aWISH - animal Welfare Indicators at the SlaughterHouse	Johannes Baumgartner
EU (Commission of the European Union)	Animals, climate and political education	Ariane Veit
FFG – Austrian Research Promotion Agency	Mares in heat, headshaking: feeding tests on horses with herbal products	Isabella Hahn-Ramssl
FFG – Austrian Research Promotion Agency	Promoting rumen development and health in rearing calves with rye – Rumi-Rye	Barbara Metzler-Zebeli
FFG – Austrian Research Promotion Agency	Systemic risk management and resilience planning for Austrian food supply security	Amélie Desvars-Larrive
FFG – Austrian Research Promotion Agency	Transformation via Ionic liquid remodelling	Patrick-Julian Mester

FUNDING AGENCY	PROJECT TITLE	PROJECT LEADER
FFG – Austrian Research Promotion Agency	Analysis of friction and damping behaviour of hoof shoes	Christian Peham
FWF – Austrian Science Fund	The dark side of light: light pollution and early maternal investment	Katharina Mahr
FWF – Austrian Science Fund	Imaging and gene expression analysis of <i>Pneumocystis f. sp. suis</i> infected pig respiratory cell cultures	Christiane Weissenbacher-Lang
FWF – Austrian Science Fund	Defining blank spots in the map: deciphering BVDV (pestivirus) entry by targeted functional genomics	Hans Tillmann Rümenapf
FWF – Austrian Science Fund	Fibre in chicken diet – <i>Campylobacter jejuni</i> : bonus or burden?	Wageha Awad
FWF – Austrian Science Fund	Evolutionary history of <i>Origanum majorana</i> L. and its specific sabinyi-chemotype	Johannes Novak
FWF – Austrian Science Fund	The role of Rhs insertion in bacterial competition and virulence of <i>Listeria monocytogenes</i>	Kathrin Kober-Rychli
FWF – Austrian Science Fund	Rapid electrodynamic sepsis diagnostics	Monika Ehling-Schulz
FWF – Austrian Science Fund	Improved biomarker detection for eye disease with contrast- and stimulation-enhanced optical coherence tomography (CaSE-OCT)	Martin Glösmann
FWF – Austrian Science Fund	Socioecology of free-ranging dogs	Andreas Berghänel
FWF – Austrian Science Fund	Voice prints: individual signatures and recognition in mice	Sarah Zala
FWF – Austrian Science Fund	Vertical social transmission of animal-human relationships	Susanne Waiblinger
FWF – Austrian Science Fund	Fitness-related effects of sex reversal in the agile frog	Edina Nemeshazi
FWF – Austrian Science Fund	Polygenic adaptation	Neda Barghi
FWF – Austrian Science Fund	PLFDoc: Precision Livestock Farming	Maciej Oczak
FWF – Austrian Science Fund	Tendon-on-a-chip: a biomimetic tendinopathy model	Florien Jenner
Gesellschaft für Forschungsförderung Niederösterreich m.b.H.	Uncovering new checkpoints in natural killer cells to prevent breast cancer metastasis	Dagmar Gotthardt
Gut Aiderbichl Stiftung Österreich	Leaving life: hospice and palliative care in small animal practice	Svenja Springer
Gut Aiderbichl Stiftung Österreich	Social contacts and access to resources as indicators of equine welfare and quality of life	Florien Jenner

FUNDING AGENCY	PROJECT TITLE	PROJECT LEADER
Independent Research Fund Denmark	Can dairy cows have the best of both worlds – positive emotional states rearing their calf and subsequent stress-less separation?	Jean-Loup Rault
Municipal Department 15 of the City of Vienna, Health Service (MA 15)	Mosquito Monitoring Vienna – 2022	Hans-Peter Führer
Austrian Academy of Sciences	Identification of cell populations in canine intestinal organoids and primary epithelium for modelling of acute and chronic gastrointestinal diseases	Georg Csukovich
Austrian Academy of Sciences	Identification of melanoma brain invasion factors and their niche-dependent regulation through CRISPR-based technologies	Anna Vidal Lazaro
Austrian Agency for Education and Internationalisation (OeAD)	Panacea butyrate? Evaluation of production, effects and therapeutic potential in the equine colon	Franziska Dengler
Austrian Agency for Education and Internationalisation (OeAD)	Microbial dynamics along the food chain	Evelyne Selberherr
Austrian Agency for Education and Internationalisation (OeAD)	Investigating the immune response of turkeys following different conditions	Dieter Liebhart
Austrian Agency for Education and Internationalisation (OeAD)	Strengthening genetic biocontrol capacities under climate change in Armenia	Pamela Burger
ÖFFH – Austrian Research Fund for Herpetology (Schönbrunner Tiergarten GmbH and Austrian Association for Herpetology)	Detection of Chytrid infection directly in the field to allow rapid identification of disease prevalence and transmission potential	Steven Smith
SNSF – Swiss National Science Foundation	A novel path for microbial risk assessment towards sustainable food systems: employing AI-based risk management concepts from stochastic finance	Monika Ehling-Schulz
City of Vienna	Circular peptide therapeutics for AML	Karoline Kollmann
Stiftung Pro Pferd	Objective quantification of pain in horses	Stephanie von Ritgen
The European College of Porcine Health Management Ltd	Effects of porcine reproductive and respiratory syndrome virus (PRRSV) infection in the last third of gestation on microbial communities in fetuses	Heinrich Kreutzmann
The Wild Animal Health Fund of AAZV	Improving animal welfare during rhinoceros translocation in Southern Africa	Friederike Pohlin
United Nations	Monitoring of SARS-CoV-2 in European bat species	Sasan Fereidouni

Vetmeduni on Social Media

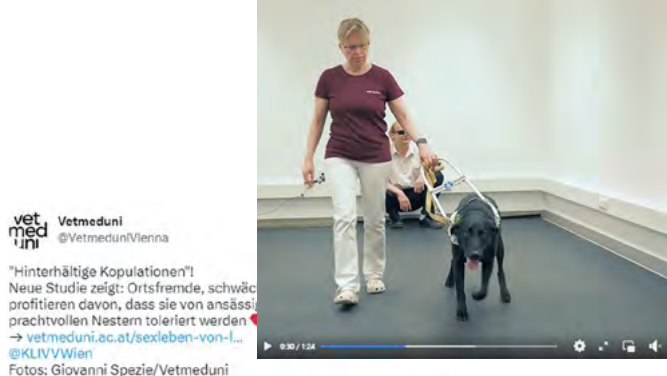
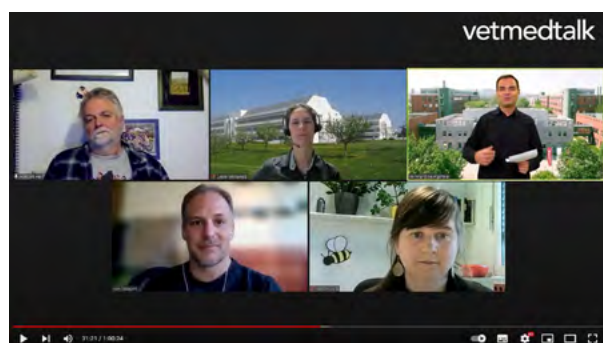
Vetmeduni's social media channels publish the latest research results, calls for studies, interesting facts for animal owners and useful information for future or current students. The platforms Facebook, Instagram, Twitter and YouTube are used for a direct, uncomplicated exchange around the clock with interested followers. With the help of infographics, video or live streams of expert discussion rounds, Vetmeduni aims to make science communication as understandable and exciting as possible for a broad target group.

 facebook.com/
vetmeduni.vienna

 instagram.com/
vetmedunivienne

 twitter.com/
vetmedunivienne

 youtube.com/
vetmedunivienne



The VETMED Magazine for Perusal

The university's own printed magazine VETMED features current research projects, recent scientific findings, news from the campus and cases from clinical practice. It is sent out three times a year to around 4,000 subscribers at home and abroad. The 2022 focus was on topics such as reproduction, prosthesis development and heat stress in livestock.



All editions are available online at: www.vetmeduni.ac.at/vetmedmagazin

Animal Health Media Award and Austrian Magazine Award

No less than two awards were presented to VETMED Magazine in 2022: the Animal Health Media Award in Gold to graphic designer Matthias Moser and VETMED's Editor-in-Chief Stephanie Scholz, and the Austrian Magazine Award in the 'Science, Technology, Research' category.



Magazine Award: The award was presented on 6 April 2022 in the Federal Chancellery by Media Minister Susanne Raab (right) and the President of the Austrian Magazine Association (ÖZV), Claudia Gradwohl (left), to VETMED Editor-in-Chief Stephanie Scholz (centre).



Events

- **Campus Open Day 2022**

Complete success: On 21 May 2022, following pandemic-related postponement, Vetmeduni presented its diverse fields of research and activity to more than 2,700 prospective students, animal lovers and research enthusiasts. During guided tours to operating theatres and accommodation for small and large animals, the visitors gained insights into the daily work of veterinary clinics, research facilities and institutes.

- **Long Night of Research**

A Vetmeduni took part in the Long Night of Research with a guided tour of the Anatomy Museum. Visitors were shown exhibits of various organ systems, skeletons, wet and dry preparations held in the Anatomy Teaching Collection. They also learned about the institute's teaching and research methods.

- **Greenhouse Open Day 2022**

2022 was the first time that the Institute of Animal Nutrition and Functional Plant Compounds organised the Greenhouse Open Day. Employees of Vetmeduni could buy winter salads, herbs, seeds, perennials, rarities as well as dried cuttings for teas and seasoning.

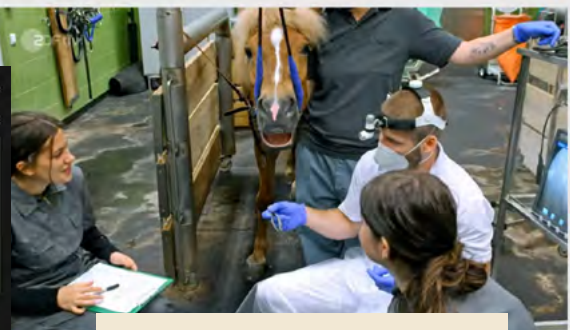
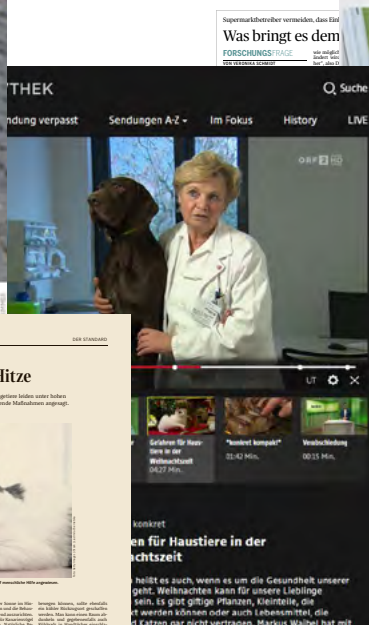
- **ECPLF and PDC Congress at Vetmeduni**

The 10th European Conference on Precision Livestock Farming (ECPLF) and the 3rd International Conference on Precision Dairy Farming (PDC) took place as a joint event from 29 Aug to 2 Sep 2022 at Vetmeduni. The congress programme offered numerous scientific lectures, workshops and poster presentations as well as an excursion to VetFarm, a key teaching and research facility of Vetmeduni.



All events at:
www.vetmeduni.ac.at/veranstaltungen

Vetmeduni in the Media

[illegible]

SOCIAL MEDIA

Unflappable, committed
and innovative:
The University of Veterinary
Medicine, Vienna, stands for
responsible action to ensure
the health of humans,
animals and the environment.

Animal Hospital





Jürgen Rehage
Vice-Rector for Study Affairs and
Clinical Veterinary Medicine

One highlight in 2022 was undoubtedly the commissioning of the new building for the Small Animals Clinic, which raises patient care and student teaching to a new level. With the support of teaching staff and students, instruction using live horses has been moved to the Haidlhof estate so that the horses now find exemplary conditions in which they are kept. The new specialisation modules on Ruminant Medicine in the Alpine Region were incorporated into the curriculum. To alleviate Study Affairs of inquiries from applicants, a chatbot has been made available on the university's website. The introduction of a cloud-based version of Vetucation as well as a new media library widens the possibilities for supporting digital forms of teaching.



Jörg Aurich
Head of the Department/University
Clinic for Companion Animals and
Horses

Clinical work in the Department for Companion Animals and Horses is the basis for the training of students and the professional development of assistants in almost all clinical specialities. Ensuring that daily work lives up to the requirements of a referral clinic is a growing challenge to be met by Vetmeduni. In the final phase of the year under report, vacant professorships and several career positions were successfully filled. The task now is to develop an overall concept for the department's research funding and scientific quality assurance and successfully address innovative questions.



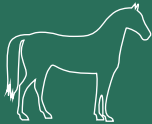
Martin Wagner
Head of the Department/Clinic for
Farm Animals and Veterinary Public
Health

In view of climate change, securing food production is the primary issue for the future of humankind. The animal production sector in particular will come under pressure, as most strategy papers call for a predominantly plant-based diet. Department 3 therefore continued its policy in 2022 to try and create a science-based bridge between a sustainable and yet intensively resource-using agricultural system and its adaptation to current challenges in the priority areas of animal disease control and food science. Since its foundation in 2007, Michael Hess headed the department. My sincere thanks go to my predecessor for his transparent leadership.

5 UNIVERSITY CLINICS FOR



POULTRY AND FISH



HORSES



SWINE



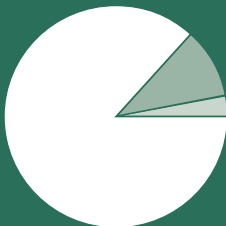
SMALL ANIMALS



RUMINANTS

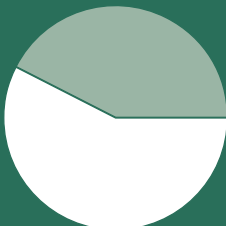
PATIENT VISITS 2022

2022 TOTAL
42,123



- horses, donkeys 4,531
- farm animals 1,269
- small animals 36,323

CARE GIVEN TO ANIMAL PATIENTS



- inpatients 17,610
- outpatients 24,513

Figures exclude poultry and visits for the purpose of herd health management (livestock)

The University Clinic for Poultry and Fish managed a total of 26,093 patients and samples in 2023.

RESIDENTS

30

Number of Residents who were in training in 2022 and quality-assured by the Residency Advisory Board.

DIPLOMATES

75

Number of Diplomates as at 31 DEC 2022.

Residency programmes are veterinary medical study programmes with an international character that offer intensive specialisation in a clinical specialty field. Graduates of this three- to four-year training programme are called Diplomates.

Training Programmes 'Residency'



ANAESTHESIOLOGY ECVAA

European College of
Veterinary Anaesthesia
and Analgesia



OPHTHALMOLOGY ECVO

European College of
Veterinary Ophthalmology



DIAGNOSTIC IMAGING ECVI

European College of
Veterinary Diagnostic Imaging,
Small Animal Track



SURGERY, LARGE ANIMALS ECVS

European College of
Veterinary Surgery,
Large Animal Surgery



SURGERY, SMALL ANIMALS ECVS

European College of
Veterinary Surgery,
Small Animal Surgery



DERMATOLOGY ECVD

European College of
Veterinary Dermatology



POULTRY VETERINARY MEDICINE ECPVS

European College of
Poultry Veterinary Science



VETERINARY INTERNAL MEDICINE, COMPANION ANIMALS ECVIM-CA

European College of
Veterinary Internal Medicine,
Companion Animals



INTERNAL MEDICINE, COMPANION ANIMALS ONCOLOGY ECVIM-CA, ONCOLOGY

European College of
Veterinary Internal
Medicine, Companion
Animals – Oncology



INTERNAL MEDICINE, HORSES ECEIM

European College of
Equine Internal Medicine



REPRODUCTIVE MEDICINE ECAR

European College of
Animal Reproduction



BOVINE MEDICINE ECBHM

European College of
Bovine Health Management



PORCINE MEDICINE ECPHM

European College of
Porcine Health Management



SPORTS MEDICINE ECVSMR

European College
of Veterinary Sports
Medicine and Rehabilitation,
Small Animal Track



VETERINARY PARASITOLOGY EVPC

European Veterinary
Parasitology College



VETERINARY PATHOLOGY ECVP

European College of
Veterinary Pathologists

Opening of the new University Clinic for Small Animals

On 23 June 2022, the new 'Small Animals Clinic' was opened in a special ceremony in the presence of Science Minister Martin Polaschek. The building has been erected on the Floridsdorf campus of the University of Veterinary Medicine, Vienna, according to the most modern clinical standards. The design and equipment of the new University Clinic for Small Animals facilitate the interdisciplinary examination and care of dogs, cats and other small animals, thus improving the clinical training of future veterinarians in a sustainable manner.



Universitätsklinik für Kleintiere

Universitätsklinik für Kleintiere



Photos: (1, 4) Hertha Hurnaus/Vetmeduni, (2, 3) Thomas Suchanek/Vetmeduni

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