VETERINARY • PUBLIC • HEALTH • INSTITUTE

UNIVERSITÄT BERN

Annual Report 2022-2023

Contents

1. Preface ... 3
1.1. Gertraud Schüpbach ... 3
1.2. Hanno Würbel ... 4
2. Research ... 5
2.1. Research of the Veterinary Public Health Institute ... 5
3. Current research projects ... 6
3.1. VPH/Epidemiology ... 6
3.1.1. Antimicrobial resistance ... 6
3.1.2. Clinical epidemiology and animal health economics ... 6
3.1.3. One Health & Modelling of infection diseases ... 7
3.1.4. Zoonotic diseases ... 9
3.1.5. Other topics on VPH/Epidemiology ... 9
3.2. Animal Welfare ... 10
3.2.1. Animal Welfare and 3Rs ... 10
3.2.1. Center for proper housing: poultry and rabbits (ZTHZ) ... 10
3.3. Funding ... 13
3.3.1. Project grants VPH/Epidemiology ... 13
3.3.2. Project grants Animal Welfare ... 15
4. Teaching ... 17
4.1. Core curriculum, University of Bern ... 17
4.2. Post graduate Education and Continuing Professional Education ... 17
4.3. CAS One Health ... 18
5. Services ... 19
5.1. Services for the Federal Veterinary Authorities ... 19
5.2. Services for the Vetsuisse Faculty ... 20
6. Publications ... 21
6.1. Publications (peer-reviewed) ... 21
6.1.1. Division VPH/Epidemiology ... 21
6.1.2. Division Animal Welfare ... 28
6.2. Completed Dissertations & Master (M.Sc.) Work on research ... 32
6.2.1. Division VPH/Epidemiology ... 32
6.2.2. Division Animal Welfare ... 32
6.3. Awards and prizes for research ... 33
6.3.1. Division VPH/Epidemiology ... 33
6.3.2. Division Animal Welfare ... 33

7. The VPHI introduces itself 34
7.1. Org chart 2022/2023 34
7.2. Team VPH/Epidemiology 35
7.3. Team Animal Welfare 36
7.4. Secretary and administration 37
7.5. Maps and contact address 37

1. Preface

1.1. Gertraud Schüpbach

Head of the Institute

Head of Department DCR-VPH (2022/2023)

The Vetsuisse Faculties Bern and Zürich have an excellent academic reputation and are highly successful in research. Vetsuisse was assigned 4th place in the QS World University Ranking for Veterinary Science for the years 2022 and 2023. We are proud that the Veterinary Public Health Institute and its numerous partners were able to contribute to this success. This report summarizes the most important achievements of the last two years.

With the decline in the importance of SARS-CoV-2, other contagious diseases have come into the focus of attention. Avian flu has spread several times across Europe and has become endemic in many wild bird populations. Millions of birds had to be culled due to the disease, and adaptation of the virus to various mammalian species has caused concern over a potential new pandemic in humans. From a veterinary perspective, African Swine Fever is an equally threatening disease. VPHI contributes with its research to prepare Switzerland for a potential introduction of the disease into the wild boar population.

In the past two years, we have invested considerable time and energy into advancing and improving our teaching activities. The new Vetsuisse curriculum is now established in all years of the veterinary education. The epidemiology group of VPHI has expanded its teaching activities and is now contributing to the newly established courses in scientific work, sustainability, and population medicine. This ideally complements our ongoing courses in epidemiology, biostatistics, and highly contagious animal diseases. At the postgraduate level, we have collaborated with the Institute for Social and Preventive Medicine to implement a new course programme in Public Health Sciences for PhD students. At the level of professional education, we have prepared a new CAS in One Health, which will start in 2024.

I would like to thank the whole VPHI team for the great work during the last two years. Their enthusiasm, creativity and collegiality are the basis for our success.

Gertraud Schüpbach

1.2. Hanno Würbel

Head of Division of Animal Welfare

After recovery from the SARS-CoV-2 pandemic, we gradually slipped back in our pre-pandemic routines. More and more team members realized that although home office has its advantages, it is so much more fun to work surrounded by colleagues and be able to combine work with some social life at the workplace.

The greatest achievement of the past two years was clearly the $2.7 million funding award from the US foundation "Open Philanthropy" to Mike Toscano and his team at the Centre for Proper Housing for poultry and rabbits (ZTHZ) to identify traits that relate to the welfare and health of chickens in view of breeding more robust and resistant birds. This award is also a recognition of the significance of our poultry behaviour and welfare research and further helps establish the ZTHZ as an international leader in poultry science.

On the downside, we had to let go of our plans to permanently establish a companion animal behaviour group at our faculty. Supported by an advanced postdoc position sponsored by the Faculty Clinical Research Platform and an Ambizione Grant by the Swiss National Science Foundation, Stefanie Reimer had established and successfully led the HundeUniBern during her six years with us from 2016-2022. The group was not only successful in research but also contributed substantially to teaching, which in turn attracted many veterinary students to do their Master projects with our companion animal behaviour group. We wish her all the best on her new position at the Messerli Research Institute at the Vetmed Uni Vienna.

Besides these two high- and lowlights, there were many other memorable moments, including the resumption of our annual events: the Walks & Talks retreat, the Dodgeball Tournament, and the Christmas Dinner. Everything else, you will find summarized in this biannual report.

Hanno Würbel

2. Research

2.1. Research of the Veterinary Public Health Institute

The World Health Organization defines Veterinary Public Health (VPH) as "the sum of all contributions to the complete physical, mental and social well-being of humans through an understanding and application of veterinary medical science". VPH thus promotes human health by reducing hazards related to animals, animal products, and their environment, and by supporting positive impacts of animals on humans.

VPH is a broad field, and therefore requires a lot of specialized expertise from clinical skills and ethology to molecular epidemiology and mathematical modelling. It is not possible to cover all this expertise within a relatively small institute. The institute's strategy is thus to specialize on a few defined research areas, and cover additional skills via strategic research collaborations, e.g. with clinicians, social scientists, computer scientists, physicists or molecular epidemiologists. The Institute is part of the Department of Clinical Research and Veterinary Public Health (DCR-VPH).

The following topics are in the focus of the institute's research:

Division VPH/Epidemiology

1. **Surveillance and big data**
   The focus in this area is on the development and application of new methods for syndrome surveillance, the integration of multiple data sources, as well as the evaluation and improvement of monitoring and surveillance programs of the Swiss Veterinary Service.
2. **One Health and modelling of infectious diseases**
   Projects dealing with the joint promotion of human, animal and environmental health are the focus of this research area. Current projects are concerned with the ecology of rabies and combined systems for health monitoring in humans and animals.
3. **Clinical epidemiology and animal health economics**
   The focus is on epidemiological and economic models on zoonoses, antimicrobial resistance and animal diseases. Projects such as these deal with improving animal health, reducing antimicrobial usage in animals and assessing economic impacts of animal diseases and intervention programs.

Division Animal Welfare

1. **Center for Proper Housing of Poultry and Rabbits (ZTHZ)**
   The ZTHZ, a joint venture between the University of Bern and the Federal Food Safety and Veterinary Office (FSVO), focuses on all aspects concerning housing and welfare for commercial poultry and rabbit production. Projects ultimately target applications in practice, but also cover basic research into underlying mechanisms of practical problems.
2. **Animal welfare and 3Rs**
   This group studies the relationships between behaviour, cognition, and emotion in order to identify valid and reliable behavioural measures of animal welfare. Special focus is given to laboratory animals (mice, rats) and the 3Rs, with studies on how environmental conditions affect the behaviour and welfare of laboratory animals, and how this relates to the validity and reproducibility of results from animal experiments.

3. Current research projects

3.1. VPH/Epidemiology

3.1.1. Antimicrobial resistance

Anomaly detection in the veterinary antibiotic surveillance system IS ABV
VPHI Staff involved: Guy Schnidrig, Gertraud Schüpbach
Funding source: Federal Food Safety and Veterinary Office (FSVO)
Duration: 2022–2023

Antibiotic benchmark for cattle farms in Switzerlang
VPHI Staff involved: Guy Schnidrig
Funding source: Federal Food Safety and Veterinary Office (FSVO)/ VPHI
Duration: 2022–2023

Antimicrobial usage and Animal health and welfare indicators
VPHI Staff involved: Beat Thomann, Adrian Minnig
Funding source: Federal Food Safety and Veterinary Office (FSVO)
Duration: 2022–2024

Enovat – European Network for Optimization of Veterinary Antimicrobial Treatment
VPHI Staff involved: Luís Pedro Carmo, Brian Friker, Ronald Ngom, Filipe Maximiano Sousa
Funding source: COST
Duration: 2020– ongoing

ReLait: Reducing Antimicrobial Use in dairy production in Fribourg
VPHI Staff involved: Brian Friker, Dima Farra
Funding source: Federal Office for Agriculture (FOAG) and Agricultural Institute Canton Fribourg
Duration: 2020– ongoing

3.1.2. Clinical epidemiology and animal health economics

Cattle farm classification based on antibiotic unse and animal movement
VPHI Staff involved: Guy Schnidrig
Funding source: Federal Food Safety and Veterinary Office (FSVO) / VPHI
Duration: 2023–2024

Evaluation of Animal Health data
VPHI Staff involved: Valerie Hungerbühler, Gertraud Schüpbach
Funding source: Federal Food Safety and Veterinary Office (FSVO)
Duration: 2021–2024

Paratuberculosis in Swiss dairy cattle
VPHI Staff involved: Silja Griss, Beat Thomann, Gertraud Schüpbach
Funding source: Swiss National Science Foundation (SNSF)
Duration: 2022–2025

GBADs - Estimation of Animal Health Loss Envelope for UK Pork Production
VPHI Staff involved: Beat Thomann
Funding source: The University of Liverpool
Duration: 2022

GBADs Danish Case Study - Estimation of Animal Health Loss Envelope for Danish Pork Production
VPHI Staff involved: Beat Thomann, Camille Doras
Funding source: The University of Liverpool
Duration: 2023–2024

Risk-based animal welfare controls
VPHI Staff involved: Brian Friker, Annie Buzzel, Beat Thomann
Funding source: Federal Food Safety and Veterinary Office (FSVO)
Duration: 2022–2023

Smart Animal Health – A method to assess animal health and welfare in farm animals
VPHI Staff involved: Beat Thomann, Gertraud Schüpbach
Funding source: Federal Food Safety and Veterinary Office (FSVO) and Federal Office for Agriculture (FOAG)
Duration: 2019–2022

Smart Animal Health 2– Implementing animal health and welfare measures in dairy and swine farms
VPHI Staff involved: Beat Thomann, Adrian Minnig, Gertraud Schüpbach
Funding source: Federal Food Safety and Veterinary Office (FSVO) and Federal Office for Agriculture (FOAG)
Duration: 2022– ongoing

3.1.3. One Health & Modelling of infection diseases

Bridging Grants with China, Japan, South Korea and the ASEAN region: Bridging One Health
VPHI Staff involved: Gertraud Schüpbach, Luís Pedro Carmo
Funding source: Swiss Federal Institute of Technology Zurich
Duration: 2020–2023

Building Resilience to Health Hazards
VPHI Staff involved: Salome Dürr, Laura Cunha da Silva
Funding source: Leading House for the Latin American Region
Duration: 2020–2023

eRabies – towards rabies elimination in Uganda
VPHI Staff involved: Salome Dürr
Funding source: Swiss National Science Foundation (SNSF)
Duration: 2022–2026

NCCS: Effect of Climate Change on Human Health, Animal Health and Food Safety
VPHI staff involved: Anna-Sophia Stocker, Gertraud Schüpbach, Ioannis Magouras
Funding source: Meteo Schweiz, Subcontract Vetsuisse
Duration: 2023–2025

Leptospira infection in humans and livestock in Uganda
VPHI staff involved: Salome Dürr
Funding source: VPHI
Duration: 2020–2023

One Health and citizen science approaches for contextualized community-led interventions tackling waterborne parasitic diseases in Chad
VPHI staff involved: Dima Farra, Salome Dürr
Funding source: Swiss Network of International Studies (SNIS) and Specialization Board Vetsuisse
Duration: 2022–2024

Effects of human activities on the behaviour of wild boar for African Swine Fever control
VPHI Staff involved: Beatriz Vidondo
Funding source: Federal Food Safety and Veterinary Office (FSVO), Federal Office for the Environment (FOEN)
Duration: 2021–2023

Preparation towards African Swine Fever Control
VPHI Staff involved: Janine Miesch, Salome Dürr
Funding source: Federal Food Safety and Veterinary Office (FSVO)
Duration: 2023–2025

SwineNet – network analysis and infectious disease modeling
VPHI Staff involved: Francesco Galli, Dima Farra, Salome Dürr
Funding source: Swiss National Science Foundation (SNSF)
Duration: 2019–2023

SySMob - an innovative and integrated health surveillance system in human and animal populations in rural Africa
VPHI Staff involved: Salome Dürr
Funding source: Wolfermann-Nägeli-Stiftung
Duration: 2021– ongoing

3.1.4. Zoonotic diseases

EFSA: Prioritizing zoonotic diseases for a One Health Surveillance
VPHI staff involved: Gertraud Schüpbach, Laura Cunha Silva, Annie Buzzel
Funding source: European Food Safety Agency (EFSA)
Duration: 2023

Aflatoxin-related health risk for mild consumers
VPHI Staff involved: Filipe Maximiano
Funding source: International Livestock Research Institute (ILRI)
Duration: 2019–2023

Comparative study of diagnostic tests for Q fever and rift valley fever in humans and animals in rural Chad
VPHI Staff involved: Valerie Hungerbühler, Salome Dürr
Funding source: Wolfermann-Nägeli-Stiftung
Duration: 2021–2023

A systematic review of KAP studies on rabies and exposure to dog bites
VPHI Staff involved: Filipe Maximiano
Funding source: University of Berne, Doc. Mobility Grant
Duration: 2023–2024

Towards "Zero by 30": Investigation into free-roaming dogs' behaviour and its application for improved rabies control strategies
VPHI Staff involved: Laura Cunha da Silva
Funding source: VPHI, UniBE Short Travel Grants for (Post)Docs
Duration: 2022–2025

3.1.5. Other topics on VPH/Epidemiology

The role of women in animal health in Ethiopia's Somali region
VPHI Staff involved: Valerie Hungerbühler
Funding source: Specialisation Committee (SpezKo)
Duration: 2023

3.2. Animal Welfare

3.2.1. Animal Welfare and 3Rs

ENRICHMENT: Ethological evaluation of minimal requirements for the housing of mice as lab animals and pets
VPHI Staff involved: Hanno Würbel, Michelle Gygax, Janja Novak
Funding source: Federal Food Safety and Veterinary Office (FSVO)
Duration: October 2021 – September 2024

iRISE: improving Reproducibility in Science
VPHI Staff involved: Hanno Würbel, Bernhard Völkl
Funding source: EU Horizon Europe (Widera-2022_ERA-01)
Duration: 2023–2026

Pferdefütterung mittels Slowfeeding-Systemen
VPHI Staff involved: Hanno Würbel, Marie Roig-Pons
Funding source: Agroscope
Duration: 2019–2024

PreReg: Preregistration in Animal Experimentation – A Feasibility Study
VPHI Staff involved: Hanno Würbel, Cristina Priboi
Funding source: Federal Food Safety and Veterinary Office (FSVO)
Duration: 2023–2025

SABV: Best practice guidance for including sex as a biological variable in animal research
VPHI Staff involved: Hanno Würbel, Ivana Jaric, Janja Novak, Bernhard Völkl
Funding source: Swiss 3R Competence Centre (3RCC)
Duration: October 2021 – April 2024

Do dogs indicate true material when they have been conditioned to pseudo-odor only
VPHI Staff involved: Hanno Würbel, Leonie Trees
Founding source: Albert-Heim-Stiftung
Duration: 2023–2024

3.2.1. Center for proper housing: poultry and rabbits (ZTHZ)

Behavioral development and variation in movement patterns across laying hens
VPHI Staff involved: Michael Toscano, Yamenah Gómez, Camille Montalcini, Bernhard Völkl
Funding: Swiss National Science Foundation (SNSF)
Duration: 2019–2023

Calcium timing as a method to reduce keel bone fractures
VPHI Staff involved: Masha Marincek
Funding: Effective altruism
Duration: 2022–2023

Determining suitable swimming areas for geese in Switzerland
VPHI Staff involved: Yamenah Gómez
Funding: Federal Food Safety and Veterinary Office (FSVO)
Duration: 2021–2022

Developing artificial stimuli of encourage earlier use of ramps in the early life of laying hens
VPHI Staff involved: Michael Toscano, Ariane Stratmann, Alex Johny
Funding: Horizon 2020, Marie Skłodowska-Curie grant agreement No 812777
Duration: 2019–2023

Developing a phenotype for piling in laying hens
VPHI Staff involved: Ariane Stratmann, Satar Abdelrahman
Funding: Lohmann Breeders GmbH
Duration: 2021–2023

Digital laying hen barn: Modelling a digital laying hen barn using Computational Fluid Dynamics
VPHI Staff involved: Michael Toscano, Sabine Gebhardt
Funding source: Innosuisse
Duration: 2021–2023

Examining the relationship of social dynamics, behaviour and biology of laying hens
VPHI Staff involved: Michael Toscano, Yamenah Gómez, Klara Grethen
Funding: Horizon 2020, Marie Skłodowska-Curie grant agreement No 812777
Duration: 2019–2023

Exploration of sensor-based behavioural observation for individual laying hens and broiler breeders
VPHI Staff involved: Michael Toscano, Yamenah Gómez, Laura Candelotto
Funding: Federal Food Safety and Veterinary Office (FSVO)
Duration: 2019–2023

Exploring the proximate factors affecting movement and location patterns and their relation to health and welfare in poultry
VPHI Staff involved: Michael Toscano, Yamenah Gomez
Funding source: Swiss National Science Foundation (SNSF)
Duration: 2019–2024

GEroNIMO: Genome and Epigenome enabled breeding in Monogastrics
VPHI Staff involved: Michael Toscano, Matthew Petelle
Funding source: EU Horizon 2020
Duration: 2021–2026

HenGen: Genomic basis of animal health and welfare phenotypes
VPHI Staff involved: Masha Maricek
Funding: Federal Food Safety and Veterinary Office (FSVO)
Duration: 2022–2024

HenTrack: Using individual movement and location patterns to improve the genetic selection of commercial laying hens
VPHI Staff involved: Michael Toscano, Sabine Gebhardt, Yamenah Gómez
Funding: Open Philanthropy Project, Hendrix Genetics
Duration: 2022–2026

Insect feeding as an alternative protein source for laying hens
VPHI Staff involved: Masha Marincek, Ariane Stratmann
Funding: Berner Fachhochschule
Duration: 2022–2023

Optimizing climate control in laying hen aviaries
VPHI Staff involved: Sabine Gebhardt
Funding: Innosuisse
Duration: 2021–2023

Toe pecking in laying hens: Identification of risk factors and causes
VPHI Staff involved: Franziska Häfliger, Masha Marincek, Alex Johny
Funding: Federal Food Safety and Veterinary Office (FSVO)
Duration: 2023–2025

3.3. Funding

3.3.1. Project grants VPH/Epidemiology

Funding Agency	Funding	Amount (CHF)	Duration
University of Bern, Specialisation Committee (SpezKo) Hungerbühler V *The role of women in animal health in Ethiopia's Somali region*	Travel grant	5'000	2023
Swiss Network of International Studies (SNIS) Dürr S *Waterborne parasitic diseases in Chad*	PhD student, other	25'640	2023–2024
Specialization Board Vetsuisse Bern Farra D *Prevalence and risk factors of schistosomiasis and fascioliasis in livestock in Chad*	Resident	25'640	2023–2024
Federal Food Safety and Veterinary Office (FSVO) Dürr S *Preparation towards African Swine Fever Control*	Doctoral student research	149'901	2023–2025
Meteo Schweiz, subcontract Vetsuisse Schüpbach G *NCCS Effect of Climate Change on Human Health, Animal Health and Food Safety*	Resident	61'000	2023–2025
University of Berne, Multidisciplinary Center for Infectious Diseases (MCID) Dürr S *Development of a MAS/CAS in One Health*	Scientific assistant	63'260	2023–2026
The University of Liverpool Thomann B *GBADs Danish Case Study - Estimation of Animal Health Loss Envelope for Danish Pork Production*	Research	31'223	2023–2024
The University of Liverpool Thomann B *GBADs Estimation of Animal Health Loss Envelope for UK Pork Production*	Research	33'628	2022
University of Bern, Doc Mobility grant Maximiano F *A systematic review of KAP studies on rabies and exposure to dog bites*	Doctoral student	56'459	2023–2024
European Food Safety Agency (EFSA) Schüpbach G *EFSA: Prioritizing zoonotic diseases for a One Health Surveillance*	Resident	7'186	2023
Swiss National Science Foundation (SNSF) Schüpbach G, Thomann B *Paratuberculosis in Swiss dairy cattle*	PhD student	201'263	2022–2025

Swiss Government Excellence Scholarship (Staatssekretariat für Bildung, Forschung und Innovation) Jajere S, Schüpbach G *Risks of antibiotic resistance along the food chain in Nigeria*	Postdoc	42'000	2023–2024
Swiss Government Excellence Scholarship (Staatssekretariat für Bildung, Forschung und Innovation) Loum R, Dürr S *Fasciolosis and schistosomiasis in ruminants and horses in rural areas of Chad*	PhD student	24'000	2023–2024
Federal Food Safety and Veterinary Office (FSVO) Schüpbach G *Anomaly detection in the veterinary antibiotic surveillance system IS ABV Switzerland*	PhD student	193'463	2022–2024
Federal Food Safety and Veterinary Office (FSVO) Thomann B *Risk-based animal welfare controls*	Resident	56'126	2022–2023
Federal Food Safety and Veterinary Office (FSVO) Thomann B *Antimicrobial usage and Animal health and welfare indicators*	Doctoral student	146'544	2022–2024
Federal Food Safety and Veterinary Office (FSVO) and Federal Office for Agriculture (FOAG) Thomann B *Smart Animal Health 2– Implementing animal health and welfare measures in dairy and swine farms*	Post Doc, Resident	304'360	2022–ongoing
Federal Food Safety and Veterinary Office (FSVO) Zusatzvertrag Vidondo B *Effects of human activities on the behaviour of wild boar for African Swine Fever control*	Global compensation	20'000	2023–2024
Multidisciplinary Center for Infectious Diseases (MCID) Dürr S *Development of a CAS in One Health*	Assistant	63'260	2023–2025
Zentrum für universitäre Weiterbildung Dürr S *Development of a CAS in One Health*	Assistant	25'000	2023–2025
Nachwuchsförderungskommission der Universität Bern Maximiano F	Workshop	5'000	2023
Vizerektorat Entwicklung, Unibe da Silva L Travel Grant	Travel	4'350	2023

Vizerektorat Entwicklung, Unibe Thomann B Travel Grant	Travel	4’906	2023–2024
Vizerektorat Entwicklung, Unibe Dürr S / Alinaitwe L Travel Grant	Travel	4’240	2023

3.3.2. Project grants Animal Welfare

Funding Agency	Funding	Amount (CHF)	Duration
Federal Food Safety and Veterinary Office (FSVO) Würbel H *PreReg: Preregistration in Animal Experimentation – A Feasibility Study*	Postdoc	148'000	2023–2025
EU Horizon Europe (WIDERA-2022-ERA-01) Würbel H *iRISE: improving Reproducibility In SciencE*	Personnel and purchase costs	323’539	2023–2026
Albert-Heim-Stiftung Würbel H / Trees L *Do dogs indicate true material when they have been conditioned to pseudo-odor only*	Master student	13’500	2023–2024
Innosuisse Gebhardt S *Optimizing climate control in laying hen aviaries*	Scientific Exchange	207’902	2023–2025
Nachwuchsförderungskommission der Universität Bern Yamahachi H	Walks & Talks	5’000	2022–2023
Nachwuchsförderungskommission der Universität Bern Jaric I SABV Symposium	Workshop	5’000	2022–2022
Open Philanthropy Project/Lohmann Genetics Toscano M *HenTrack: Better breeding for a cage free future – Phase 2*	Post-doc Technician consumables	2’600’000	2022–2028
Swiss National Science Foundation (SNSF) Toscano M, Gómez Y, Petelle M. *Exploring the proximate factors affecting movement and location patterns and their relation to health and welfare in poultry*	Travel accomodation	14’996	2023
Innosuisse/Smartbreed Gmbh Toscano M *Supplementing laying hen diets with Black soldier fly larvae to benefit behaviour and health*	Postdoc consumables	12’887	2022–2023

Effective Altruism Toscano M *Calcium timing as a method to reduce keel bone fracture*	Technician consumables	37’000	2022–2023
Federal Food Safety and Veterinary Office (FSVO) Toscano M *HenGen: Genomic basis of animal health and welfare phenotypes*	Global compensation	50’000	2022–2024
Federal Food Safety and Veterinary Office (FSVO) Toscano M *Toe pecking in laying hens: Identification of risk factors and causes*	Global compensation	229’692	2023–2025
University of Bern Research Fund Forschungsstiftung Petelle M *Partial financing of radio frequency identification (RFID)* *Antennas*	Antennas	15’000	2023
Eva Husi-Stiftung Gomez Y RFID Antennas	Antennas	33’000	2023
Stierli-Stiftung Grethen K *Untersuchung des sozialen Umfeldes von Legehennen*	Doctoral student	10’000	2022–2023

4. Teaching

4.1. Core curriculum, University of Bern

Scientific Work
1st Year and 5th year, Vetsuisse Faculty University of Bern
Responsible lecturers: Prof. Dr. Gertraud Schüpbach, Prof. Dr. Salome Dürr, Prof. Dr. Ioannis Magouras

Ethology, Animal Welfare and Animal Husbandry
1st Year, Vetsuisse Faculties, University of Bern & Zürich
Responsible lecturers: Prof. Dr. Hanno Würbel, PD Dr. Bernhard Völkl, Dr. Sabine Gebhardt

Veterinary Public Health I – Research Based Learning Epidemiology
3rd Year, Vetsuisse Faculty, University of Bern
Responsible lecturers: Prof. Dr. Salome Dürr, Dr. Ioannis Magouras, Prof. Dr. Gertraud Schüpbach, Beatriz Vidondo

Veterinary Public Health II – Animal Disease Control and Animal Welfare Legislation
4th Year, Vetsuisse Faculties, University of Bern & Zürich
Responsible lecturers: Dr. Beat Thomann, Prof. Dr. Gertraud Schüpbach, Dr. Ioannis Magouras, Prof. Dr. Salome Dürr

Population Medicine and Animal health economics
2nd and 4th year, Vetsuisse Faculty, University of Bern
Responsible lecturer: Dr. Beat Thomann, Prof. Dr. Salome Dürr

4.2. Post graduate Education and Continuing Professional Education

Short course in Statistics with NCSS
The VPH Institute organizes two statistics courses per year, each lasting two days. Around 25 Master's students, PhD students and postdocs, primarily from the Vetsuisse faculty are introduced to data management and data analysis with the software NCSS (www.ncss.com).
Course language: English

PhD Summer Course Epidemiology and Biostatistics, Public Health Sciences course program
In 2022 more than 20 PhD students from the graduate school as well as doctoral students and postdocs were introduced to the basics of epidemiological study planning and statistical evaluation within the framework of a two-week summer course offered by VPHI for the Graduate School GCB.
Since 2023, the VPHI contributes to the Public Health Science program from the faculty of medicine, with courses on epidemiology and biostatistics. This program is not a graduate school, but it is recommended to PhD students with a focus on public health and who later aim to stay in academia as post-docs or to work on a science-based organization.
https://www.medizin.unibe.ch/studies/study_programs/phs_course_program/index_eng.html
Course language: English

Internal Residency training sessions in Epidemiology and Biostatistics
The VPHI runs an active residency program at the European College for Veterinary Public Health (ECVPH), and with 3-5 "on site" residents is one of the institutions with the highest density of residency in Europe. So far, all residents who have completed their training at the VPHI have succeeded in passing the exams on their first attempt.

Training of official veterinarians and food inspection specialists
The VPHI teaches the topics monitoring and surveillance systems, risk assessment and epidemiological outbreak investigation within the framework of the Swiss official veterinary training and is also represented on the examination board (Gertraud Schüpbach). For food inspection specialists, VPHI offers training in risk assessment and also participates in the examination board.

4.3. CAS One Health

CAS One Health
VPHI Staff involved: Salome Dürr, Marielle Schär Selby and Camille Doras
Funding source: University of Bern
Duration: 2023–2025

MCID – CAS One Health
VPHI Staff involved: Salome Dürr, Marielle Schär Selby and Camille Doras
Funding source: University of Bern, Multidisciplinary Center for Infectious Diseases (MCID)
Duration: 2023–2025

5. Services

5.1. Services for the Federal Veterinary Authorities

In cooperation with the Swiss Federal Food Safety and Veterinary Office (FSVO), VPHI also conducts applied research and implementation projects on topics relevant for the veterinary services. It prepares risk assessments, is involved in the contingency planning, and provides scientific expertise. In 2022 and 2023, the institute provided services on the following topics:

Disinfection of manure in case of an outbreak of a highly contagious animal disease
VPHI Staff involved: Antoine Champetier, Gertraud Schüpbach
Duration: February 2022 – October 2022

Conflict of interests of keeping animals on pasture
VPHI Staff involved: Laura da Silva et al.
Duration: April 2022 – May 2022

Assessment of risks of herd-specific viral vaccines
VPHI Staff involved: Ranya Özcelic
Duration: May 2022 – December 2022

R-script for risk-based sample calculation for demonstrating disease freedom
VPHI Staff involved: Valerie Hungerbühler
Duration: May 2022 – December 2022

Adaptation of questionnaires for outbreak investigation
VPHI Staff involved: Valerie Hungerbühler
Duration: April 2022 – December 2022

Wertung des «Forced Swim Test» aus wissenschaftlicher und 3R Sicht
VPHI Staff involved: Laura da Silva, Filipe Maximiamo et al.
Duration: February 2023 – April 2023

Wertung des «Tail suspension Test» aus wissenschaftlicher und 3R Sicht
VPHI Staff involved: Laura da Silva, Filipe Maximiamo et al.
Duration: July 2023 – December 2023

Estimation of Burden of Disease Campylobacter
VPHI Staff involved: Nicole Klopfenstein, Beat Thomann
Duration: August 2023 – April 2024

Statistical and methodological evaluation of studies on probiotics
VPHI Staff involved: Gertraud Schüpbach
Duration: April 2023 – October 2023

Modelling the population of stray cats in Switzerland
VPHI Staff involved: Dima Farra, Gertraud Schüpbach
Duration: November 2023 – April 2024

Interpretation of increased number of positive laboratory results for Coxiellosis
VPHI Staff involved: Camille Doras, Ioannis Magouras
Duration: March 2023 – December 2023

Literature study on effects of different types of flooring in free stalls for cattle on animal welfare and environment
VPHI Staff involved: Anna-Sophia Stocker, Gertraud Schüpbach
Duration: May 2023 – September 2023

5.2. Services for the Vetsuisse Faculty

The VPHI offers epidemiological statistical advice for researchers of the Vetsuisse Faculty of Bern. We impart know-how on the topics of study design, calculations on power and required sample size as well as statistical data analysis. Depending on research questions and data structures, our coaches explain and accompany from simple descriptive data analyses to complex multivariate and multilevel regression models, and thus enable the development of research proposals, projects, theses and publications. We contribute to the writing of both project proposals and manuscripts and answer statistical questions from reviewers during the international peer-review process. We make sure that the analysis is performed correctly, the statistical methods are clearly described and the results are properly presented, thus increasing the quality of the published publications.

In 2022 and 2023, ca 70 research projects (including 10 master students, 32 doctoral students, 9 PhD students, 5 residents, 2 Postdocs, 1 aiming a Habilitation and 4 additional publications) were supervised by VPHI staff.

In recent years, the consultancy work has resulted in an average of 17 publications per year. Around two thirds of these were joint projects with the clinics of the Vetsuisse Faculty in Bern.

6. Publications

6.1. Publications (peer-reviewed)

6.1.1. Division VPH/Epidemiology

2023

Alban, Lis; Brookes, Victoria J; Dórea, Fernanda; Sauter-Louis, Carola; **Dürr, Salome** (2023). *Editorial: Bridging science and policy for animal health surveillance: ICAHS4 2022.* Frontiers in veterinary science, 10(1285992), S. 1285992. Frontiers Media 10.3389/fvets.2023.1285992

Arnold, M; Swam, H; Crienen, A; **Schüpbach-Regula, G**; von Berg, S; Nathues, H (2023). *Prevalence and risk factors of Brachyspira spp. in pig herds with a history of diarrhoea in six European countries.* Preventive veterinary medicine, 213(105862), S. 105862. Elsevier 10.1016/j.prevetmed.2023.105862

Biggel, Michael; Boss, Sara; Uea-Anuwong, Theethawat; Lugsomya, Kittitat; **Magouras, Ioannis**; Stephan, Roger (2023). *Complete Genome Sequence of the Extensively Drug-Resistant Extended-Spectrum β-Lactamase-Producing Proteus mirabilis Isolate HK294, Obtained from Poultry Feces in Hong Kong.* Microbiology resource announcements, 12(6), e0022523. American Society for Microbiology 10.1128/mra.00225-23

Brunner, Anna; Lehmann, Anna; Hettlich, Bianca; Peters, Laureen M; **Doras, Camille Julie**; Adamik, Katja-Nicole (2023). *Inflammatory biomarker concentrations in dogs with gastric dilatation volvulus with and without 24-h intravenous lidocaine.* Frontiers in veterinary science, 10 Frontiers Media 10.3389/fvets.2023.1287844

Burger, Dominik; **Vidondo, Beatriz**; Gerber, Vinzenz; Deillon, David; Müller, Antonia; Scheidegger, Milena Deborah; Käser, Rebekka; Ramseyer, Alessandra (2023). *High-level competition exercise and related fatigue are associated with stride and jumping characteristics in eventing horses. (Im Druck).* Equine veterinary journal Wiley 10.1111/evj.13999

Clavadetscher, G; Biner, B; Schaub, M; Studer, E; **Dürr, S**; Blatter, S; Schmelz, P; Steinborn, R; Brandt, S; Seuberlich, T; Steiner, A; Alsaaod, Maher (2023). *[Risk factors for chronic perforating skin lesions in the area of the digits in cattle on Swiss alpine pastures].* Schweizer Archiv für Tierheilkunde, 165(12), S. 771-782. Gesellschaft Schweizer Tierärztinnen und Tierärzte 10.17236/sat00412

Dinede, Getachew; Amenu, Kebede; Alonso, Silvia; Gazu, Lina; Mutua, Florence; Roesel, Kristina; Lindahl, Johanna F.; **Maximiano Sousa, Filipe**; Ulrich, Pattama; Guadu, Tadesse; Dione, Michel; Ilboudo, Guy; Knight-Jones, Theodore J. D.; Grace, Delia (2023). *Foodborne hazards in food in Burkina Faso, 1990–2019: a systematic review and meta-analysis (Im Druck).* Frontiers in sustainable food systems, 7 Frontiers 10.3389/fsufs.2023.1232992

Dürr, Salome; Wera, Ewaldus; Brookes, Victoria J.; Warembourg, Charlotte; **Griss, Silja**; Fahrion, Anna S. (2023). *The Role of Dog Ecology in Canine Rabies Prevention and Control in Asia: Lessons from Indonesia and the Oceanic Region.* In: One Health for Dog-mediated Rabies Elimination in Asia: A Collection of Local Experiences (S. 142-159). GB: CABI 10.1079/9781800622975.0012

Epper, Pascale; Glüge, Stefan; **Vidondo, Beatriz**; Wróbel, Anna; Ott, Thomas; Sieme, Harald; Kaeser, Rebekka; Burger, Dominik (2023). *Increase of body temperature immediately after ovulation in mares.* Journal of equine veterinary science, 127, S. 104565. Elsevier 10.1016/j.jevs.2023.104565

Fahrion, Anna S; Freuling, Conrad M; Léchenne, Monique; Müller, Thomas; Recuenco, Sergio; Vigilato, Marco A N; Busch, Frank; Heitz-Tokpa, Kathrin; Mauti, Stephanie; Muturi, Mathew; **Dürr, Salome** (2023). *Editorial: Rabies, a long-standing One Health example - progress, challenges, lessons and visions on the way to 0 by 30.* Frontiers in veterinary science, 10, S. 1220327. Frontiers Media 10.3389/fvets.2023.1220327

Fouché, N.; Gerber, V.; Bruckmaier, R. M.; Erni-Wespi, B.; Zander, Y.; **Vidondo, B.;** Sieme, H.; Claes, A.; Käser, R.; Burger, D. (2022). *Assessment of anti-Müllerian hormone in mares' transitional period and in relation to fertility in elderly mares*. Theriogenology, 179, S. 97-102. Elsevier 10.1016/j.theriogenology.2021.11.025

Gazu, Lina; Alonso, Silvia; Mutua, Florence; Roesel, Kristina; Lindahl, Johanna F.; Amenu, Kebede; **Maximiano Sousa, Filipe**; Ulrich, Pattama; Guadu, Tadesse; Dione, Michel; Ilboudo, Guy; Knight-Jones, Theodore; Grace, Delia (2023). *Foodborne disease hazards and burden in Ethiopia: A systematic literature review, 1990–2019 (Im Druck).* Frontiers in sustainable food systems, 7 Frontiers 10.3389/fsufs.2023.1058977

Holenweger, Fabienne; **Schüpbach, Gertraud**; Hofer, Andreas; Sidler, Xaver; Grahofer, Alexander (2023). *Housing and management factors and breed predisposition for haemorrhagic bowel syndrome in swine.* Porcine health management, 9(1), S. 44. BioMed Central 10.1186/s40813-023-00340-y

Kirkeby, Carsten; Brookes, Victoria J; Ward, Michael P; **Dürr, Salome Esther**; Halasa, Tariq (2023). *Corrigendum: A practical introduction to mechanistic modeling of disease transmission in veterinary science.* Frontiers in veterinary science, 10, S. 1129870. Frontiers Media 10.3389/fvets.2023.1129870

Leu, D., **Vidondo, B.**, Stein, V. *et al.* Recurrence rate of intervertebral disc disease in surgically treated French Bulldogs: a retrospective study (2009–2019). *Acta Vet Scand* **65**, 3 (2023). https://doi.org/10.1186/s13028-023-00667-0

Maximiano Sousa, Filipe; Warembourg, Charlotte; Abakar, Mahamat Fayiz; Alvarez, Danilo; Berger-Gonzalez, Monica; Odoch, Terence; Wera, Ewaldus; Chitnis, Nakul; **Cunha Silva, Laura**; Alobo, Grace; Sikko, Maria M; Roquel, Pablo; Hernández, Alexis Leonel López; **Dürr, Salome** (2023). *Investigation of optimized observation periods for estimating a representative home range of free-roaming domestic dogs.* Scientific Reports, 13(1), S. 22750. Nature Publishing Group 10.1038/s41598-023-49851-2

Meier, Hélène; Spinner, Keira; Crump, Lisa; Kuenzli, Esther; **Schuepbach, Gertraud**; Zinsstag, Jakob (2023). *State of Knowledge on the Acquisition, Diversity, Interspecies Attribution and Spread of Antimicrobial Resistance between Humans, Animals and the Environment: A Systematic Review.* Antibiotics, 12(1) MDPI 10.3390/antibiotics12010073

Özcelik, Ranya; Abakar, Mahamat Fayiz; Counotte, Michel Jacques; Abdelrazak Zakaria, Fatima; Kimala, Pidou; Issa, Ramadane; **Dürr, Salome** (2023). *Seroprevalence and associated risk factors of brucellosis, Rift Valley fever and Q fever among settled and mobile agro-pastoralist communities and their livestock in Chad.* PLoS neglected tropical diseases, 17(6), e0011395. Public Library of Science 10.1371/journal.pntd.0011395

Prümmer, Julia K; Stein, Veronika M; Marti, Eliane; Lutterotti, Andreas; Jelcic, Ilijas; **Schüpbach-Regula, Gertraud**; Buch, Thorsten; Maiolini, Arianna (2023). *Assessment of oligoclonal bands in cerebrospinal fluid and serum of dogs with meningoencephalitis of unknown origin.* PLoS ONE, 18(1), e0280864. Public Library of Science 10.1371/journal.pone.0280864

Rompf, Johanna; Hettlich, Bianca; Lutz, Bérénice; Marti, Eliane; Mirkovitch, Jelena; Peters, Laureen; Adamik, Katja-Nicole; **Schüpbach-Regula, Gertraud**; Willi, Barbara; Schuller, Simone (2023). *Plasma procalcitonin kinetics in healthy dogs and dogs undergoing tibial plateau leveling osteotomy.* Veterinary clinical pathology, 52(2), S. 360-368. Wiley-Blackwell 10.1111/vcp.13212

Schüpbach, Gertraud; Cunha Silva, Laura; Buzzell-Hatav, Anne (2023). *Surveillance plan proposal for early detection of zoonotic pathogens in ruminants.* EFSA supporting publications, 20(2) Wiley 10.2903/sp.efsa.2023.EN-7887

Tesfaye, Adehanom Baraki; Assefa, Guash Abay; Shishaye, Leul Berhe; Abera, Bisrat Mesfin; Gebreanenya, Nechey Tsehaye; Gebregiorgis, Gebru Legesse; **Dürr, Salome** (2023). *Outbreak investigation of foot-and-mouth disease in cattle in Tigray region, Northern Ethiopia.* Frontiers in veterinary science, 10(1157395), S. 1157395. Frontiers Media 10.3389/fvets.2023.1157395

Thomann, Beat; Würbel, Hanno; Kuntzer, Thibault; Umstätter, Christina; Wechsler, Beat; Meylan, Mireille; **Schüpbach-Regula, Gertraud** (2023). *Development of a data-driven method for assessing health and welfare in the most common livestock species in Switzerland: The Smart Animal Health project.* Frontiers in veterinary science, 10(1125806), S. 1125806. Frontiers Media 10.3389/fvets.2023.1125806

Uea-Anuwong, Theethawat; Byers, Kaylee A; Wahl, Lloyd Christian; Nekouei, Omid; Grohn, Yrjo Tapio; **Magouras, Ioannis** (2023). *Antimicrobial resistance in bacteria isolated from peridomestic Rattus species: A scoping literature review.* One health, 16(100522), S. 100522. Elsevier 10.1016/j.onehlt.2023.100522

Valle, Damarys de las Nieves Montano; García, Oshin Ley; Hernandez, Beatriz Delgado; Abreu, Marian Irian Percedo; Pérez, Dianelys Quiñones**; Cunha Silva, Laura**; Carmo, Luís Pedro; Berezowski, John; Zamora, Pastor Alfonso; **Dürr, Salome** (2023). *Toward a One Health Surveillance System in Cuba: Co-Productive Stakeholder Engagement (Im Druck).* One Health Cases, 2023 CABI 10.1079/onehealthcases.2023.0024

Vargas Amado M.E, **Vidondo B.**, Fischer C., S. Pisano S., Grütter R. Potential effect of managing connectivity to contain disease spread among free-ranging wild boar in disparate landscapes. Journal Ecological Solutions and Evidence Volume: 4, Issue: 4, 2023, DOI: (10.1002/2688-8319.12270).

Weber, Jim; Becker, Jens; Syring, Claudia; Welham Ruiters, Maria; Locher, Iwan; Bayer, Magdalena; **Schüpbach-Regula, Gertraud**; Steiner, Adrian (2023). *Farm-level risk factors for digital dermatitis in dairy cows in mountainous regions.* Journal of dairy science, 106(2), S. 1341-1350. American Dairy Science Association 10.3168/jds.2022-22243

2022

Alsaaod, Maher; **Dürr, Salome**; Iten, Damian; Buescher, Wolfgang; Steiner, Adrian (2022). *Locomotion behavior of dairy cows on traditional summer mountain farms in comparison with modern cubicle housing without access to pasture.* PLoS ONE, 17(3), e0264320. Public Library of Science 10.1371/journal.pone.0264320

Amphimaque, Bénédicte; Durand, Alexane; Oevermann, Anna; **Vidondo, Beatriz**; Schweizer, Daniela (2022). *Grading of oligodendroglioma in dogs based on magnetic resonance imaging.* Journal of veterinary internal medicine, 36(6), S. 2104-2112. Wiley 10.1111/jvim.16519

Becker, Jens; Perreten, Vincent; **Schüpbach-Regula, Gertraud**; Stucki, Dimitri; Steiner, Adrian; Meylan, Mireille (2022). *Associations of antimicrobial use with antimicrobial susceptibility at the calf level in bacteria isolated from the respiratory and digestive tracts of veal calves before slaughter.* The journal of antimicrobial chemotherapy, 77(10), S. 2859-2866. Oxford University Press 10.1093/jac/dkac246

Becker, J; Perreten, V; Steiner, A; Stucki, D; **Schüpbach-Regula, G**; Collaud, Alexandra; Rossano, Alexandra; Wüthrich, D; Muff-Hausherr, A; Meylan, M (2022). *Antimicrobial susceptibility in E. coli and Pasteurellaceae at the beginning and at the end of the fattening process in veal calves: Comparing 'outdoor veal calf' and conventional operations.* Veterinary microbiology, 269(109419), S. 109419. Elsevier 10.1016/j.vetmic.2022.109419

Bernier Gosselin, Véronique; Bodmer, Michèle; **Schüpbach-Regula, Gertraud**; Steiner, Adrian; Meylan, Mireille (2022). *Survey on the disposal of waste milk containing antimicrobial residues on Swiss dairy farms.* Journal of dairy science, 105(2), S. 1242-1254. American Dairy Science Association 10.3168/jds.2021-20948

Bohle, Leah F; Abdallah, Ally-Kebby; **Galli, Francesco**; Canavan, Robert; Molesworth, Kate (2022). *Knowledge, attitudes and practices towards malaria diagnostics among healthcare providers and healthcare-seekers in Kondoa district, Tanzania: a multi-methodological situation analysis.* Malaria journal, 21(1), S. 224. BioMed Central 10.1186/s12936-022-04244-0

Cunha Silva, Laura; Friker, Brian; Warembourg, Charlotte; Kanankege, Kaushi; Wera, Ewaldus; Berger-González, Monica; Alvarez, Danilo; Dürr, Salome (2022). *Habitat selection by free-roaming domestic dogs in rabies endemic countries in rural and urban settings.* Scientific Reports, 12(1), S. 20928. Nature Publishing Group 10.1038/s41598-022-25038-z

De la Puente-Arévalo, María; Motta, Paolo; **Dürr, Salome; Warembourg, Charlotte**; Nikola, Christopher; Burdon-Bailey, Jordana; Mayer, Dagmar; Lohr, Frederic; Gibson, Andy D; Chikungwa, Patrick; Chulu, Julius; Gamble, Luke; Anderson, Neil E; Bronsvoort, Barend M deC; Mellanby, Richard J; Mazeri, Stella (2022). *Ranging patterns and factors associated with movement in free-roaming domestic dogs in urban Malawi.* Ecology and evolution, 12(1), e8498. John Wiley & Sons, Inc. 10.1002/ece3.8498

Donatsch, L; **Friker, B**; Sieme, H; Käser, R; Burger, D (2022). *No increase in pregnancy rate of mares after preovulatory deep uterine horn application of misoprostol.* Theriogenology, 184, S. 132-139. Elsevier 10.1016/j.theriogenology.2022.03.005

Dórea, Fernanda C; Vergne, Timothée; van Schaik, Gerdien; Barrett, Damien; **Carmo, Luís Pedro**; Robinson, Philip A; Brodbelt, Dave C; McIntyre, K Marie (2022). *SVEPM 2021 - Research sharing and networking in times of pandemic: The online Annual Conference of the Society for Veterinary Epidemiology and Preventive Medicine.* Preventive veterinary medicine, 202, S. 105611. Elsevier 10.1016/j.prevetmed.2022.105611

Egli, Philipp T; **Schüpbach-Regula, Gertraud**; Nathues, Heiko; Ulbrich, Susanne E; Grahofer, Alexander (2022). *Influence of the farrowing process and different sow and piglet traits on uterine involution in a free farrowing system.* Theriogenology, 182, S. 1-8. Elsevier 10.1016/j.theriogenology.2022.01.028

Fouché, N.; Gerber, V.; Bruckmaier, R. M.; Erni-Wespi, B.; Zander, Y.; **Vidondo, B**.; Sieme, H.; Claes, A.; Käser, R.; Burger, D. (2022). *Assessment of anti-Müllerian hormone in mares' transitional period and in relation to fertility in elderly mares.* Theriogenology, 179, S. 97-102. Elsevier 10.1016/j.theriogenology.2021.11.025

Galli, Francesco; Friker, Brian; Bearth, Angela; **Dürr, Salome Esther** (2022). Direct and indirect pathways for the spread of African swine fever and other porcine infectious diseases: An application of the Mental Models Approach. Transboundary and emerging diseases, 69(5), e2602-e2616. Wiley 10.1111/tbed.14605

Gómez, Yamenah; **Berezowski, John; Jorge, Yandy Abreu**; Gebhardt, Sabine; Vögeli, Sabine; Stratmann, Ariane; Toscano, Michael Jeffrey; Völkl, Bernhard (2022). *Similarity in Temporal Movement Patterns in Laying Hens Increases with Time and Social Association.* Animals, 12(5) MDPI 10.3390/ani12050555

Gorji, Hossein; Lunati, Ivan; Rudolf, Fabian; **Vidondo, Beatriz**; Hardt, Wolf-Dietrich; Jenny, Patrick; Engel, Doortje; Schneider, Jörg; Jamnicki, Marina; Leuthold, Rudolf; Risch, Lorenz; Risch, Martin; Bühler, Martin; Sommer, Adrian; Caduff, Alexa (2022). *Results from Canton Grisons of Switzerland suggest repetitive testing reduces SARS-CoV-2 incidence (February-March 2021).* Scientific Reports, 12(1), S. 19538. Nature Publishing Group 10.1038/s41598-022-23986-0

Jahn, Laura; **Schuepbach-Regula, Gertraud Irene**; Nathues, Heiko; Grahofer, Alexander (2022). *Effect of 1,25-Dihydroxyvitamin D3-Glycosides on the Farrowing Process and Piglet Vitality in a Free Farrowing System.* Animals, 12(5) MDPI 10.3390/ani12050611

Jucker, Simone; Alsaaod, Maher; Steiner, Adrian; Zingre, Tatiana; Kässmeyer, Sabine; Gurtner, Corinne; **Friker, Brian**; Brandt, Sabine; K. Jensen, Tim; Hoby, Stefan (2022). *Treatment of digital dermatitis using salicylic acid in European bison (Bison bonasus) reveals promising results.* Frontiers in veterinary science, 9, S. 1012226. Frontiers Media 10.3389/fvets.2022.1012226

Kankya, Clovice; **Dürr, Salome**; Hartnack, Sonja; **Warembourg, Charlotte**; Okello, Justine; Muleme, James; Okello, Walter; Methodius, Tubihemukama; Alobo, Grace; Odoch, Terence (2022). *Awareness, Knowledge, and Perceptions Regarding Rabies Prevention Among Rural Communities in Masaka District, Central Uganda: A Qualitative Study.* Frontiers in veterinary science, 9, S. 863526. Frontiers Media 10.3389/fvets.2022.863526

Lutz, Barbara; Zwygart, Sibylle; **Thomann, Beat**; Stucki, Dimitri; Burla, Joan-Bryce (2022). *The relationship between common data-based indicators and the welfare of Swiss dairy herds.* Frontiers in veterinary science, 9(991363), S. 991363. Frontiers Media 10.3389/fvets.2022.991363

Magouras, Ioannis; Schoster, Angelika; Fouché, Nathalie; Gerber, Vinzenz; Groschup, Martin H; Ziegler, Ute; Fricker, Raffael; Griot, Christian; Vögtlin, Andrea (2022). *Neurological disease suspected to be caused by tick-borne encephalitis virus infection in 6 horses in Switzerland.* Journal of veterinary internal medicine, 36(6), S. 2254-2262. Wiley-Blackwell 10.1111/jvim.16533

Morend, Fanny; Lang, Johann; **Vidondo, Beatriz**; Ryser-Degiorgis, Marie-Pierre (2022). *Radiographic pelvimetry in free-ranging Eurasian lynx (Lynx lynx carpathicus) from Switzerland.* European journal of wildlife research, 68(4) Springer-Verlag 10.1007/s10344-022-01595-6

Müller, Antonia; Glüge, Stefan; **Vidondo, Beatriz**; Wróbel, Anna; Ott, Thomas; Sieme, Harald; Burger, Dominik (2022). *Increase of skin temperature prior to parturition in mares.* Theriogenology, 190, S. 46-51. Elsevier 10.1016/j.theriogenology.2022.07.007

Müller, Annina; Forterre, Franck; **Vidondo, Beatriz**; Stoffel, Michael H; Hernández-Guerra, Ángel; Plessas, Ioannis N; Schmidt, Martin J; Precht, Christina (2022). *Evaluation of Paraspinal Musculature in Small Breed Dogs with and without Atlantoaxial Instability Using Computed Tomography.* Veterinary and comparative orthopaedics and traumatology : VCOT, 35(5), S. 305-313. Thieme 10.1055/s-0042-1748860

Oesch, S; Kaiser-Thom, S; **Vidondo, B**; Gerber, V (2022). *Owner reported clinical signs and -treatment decisions in equine pastern dermatitis.* Schweizer Archiv für Tierheilkunde, 164(5), S. 401-412. Gesellschaft Schweizer Tierärztinnen und Tierärzte 10.17236/sat00356

Planchamp, Bastien; Forterre, Franck; **Vidondo, Beatriz**; Hernandez-Guerra, Angel M; Plessas, Ioannis N; Schmidt, Martin J; Waschk, Maja A; Precht, Maria (2022). *Determination of cutoff values on computed tomography and magnetic resonance images for the diagnosis of atlantoaxial instability in small-breed dogs.* Veterinary surgery, 51(4), S. 620-630. Wiley 10.1111/vsu.13799

Schädler J, Schwarz J, Peter-Egli J, Schüpbach-Regula G, Wiederkehr D, Albini S. Survey of Salmonellae occurrence in meat-producing rabbitries in Switzerland. Vet Rec Open. 2022 Jan 22;9(1):e24. doi: 10.1002/vro2.24. PMID: 35111328; PMCID: PMC8783381

Schmid, Robin Michael; Steiner, Adrian; Becker, Jens; Baumberger, Sandra; **Dürr, Salome**; Alsaaod, Maher (2022). *Field Validation of a Non-carcinogenic and Eco-Friendly Disinfectant in a Stand-In Footbath for Treatment of Footrot Associated With aprV2-Positive Strains of Dichelobacter nodosus in Swiss Sheep Flocks.* Frontiers in veterinary science, 9(812638), S. 812638. Frontiers Media 10.3389/fvets.2022.812638

Schönbächler, Katja; Segner, Helmut; Amphimaque, Bénédicte; **Friker, Brian**; Hofer, Andreas; Lange, Barbara; Stirn, Martina; Pantchev, Nikola; Origgi, Francesco C.; Hoby, Stefan (2022). *HEALTH ASSESSMENT OF CAPTIVE AND FREE-LIVING EUROPEAN POND TURTLES (EMYS ORBICULARIS) IN SWITZERLAND.* Journal of zoo and wildlife medicine, 53(1), S. 159-172. American Association of Zoo Veterinarians 10.1638/2020-0117

Stephen, Craig; Carmo, Luís Pedro; **Montano Valle de las Nieves, Damarys; Friker, Brian**; **Sousa, Filipe Maximiano; Vidondo, Beatriz**; Berezowski, John (2022). *The Implementation Gap in Emerging Disease Risk Management in the Wildlife Trade.* Journal of wildlife diseases, 58(4), S. 705-715. Wildlife Disease Association 10.7589/JWD-D-21-00199

Vaccani, M.; Sesso, L.; **Pont, J.; Schüpbach-Regula**, G.; Bodmer, M. (2022). [Intramammary use of antibiotics in dairy farms in the canton of Ticino before, during and after Staphylococcus aureus genotype B elimination]. Schweizer Archiv für Tierheilkunde, 164(7-8), S. 513-524. Gesellschaft Schweizer Tierärztinnen und Tierärzte 10.17236/sat00361

Vargas-Amado, Maria Elena; **Carmo, Luis Pedro; Berezowski, John**; Fischer, Claude; Santos, Maria João; Grütter, Rolf (2022). *Towards risk-based surveillance of African Swine Fever in Switzerland.* Preventive veterinary medicine, 204(105661), S. 105661. Elsevier 10.1016/j.prevetmed.2022.105661

Vidondo, Beatriz; Cadetg, Rebekka S.; Nathues, Heiko; Schüpbach, Gertraud; Zeeh, Friederike (2022). *Factors driving pig owners' motivation and satisfaction to perform eradications from Swine dysentery.* Preventive veterinary medicine, 204, S. 105638. Elsevier 10.1016/j.prevetmed.2022.105638

Vougat Ngom, Ronald; Cunha Silva, Laura; Carmo, Luís Pedro; **Schüpbach, Gertraud**; Sidler, Xaver; Kümmerlen, Dolf (2022). *Antimicrobial usage in Swiss fattening pig farms: is there still potential for improvement?* Tierärztliche Praxis. Ausgabe G - Grosstiere, Nutztiere, 50(1), S. 7-13. Schattauer 10.1055/a-1697-4946

Wera, Ewaldus; Warembourg, Charlotte; Bulu, Petrus M; Siko, Maria M; **Dürr, Salome** (2022). *Immune Response After Rabies Vaccination in Owned Free-Roaming Domestic Dogs in Flores Island, Indonesia.* Frontiers in veterinary science, 9, S. 868380. Frontiers Media 10.3389/fvets.2022.868380

6.1.2. Division Animal Welfare

2023

Brucks, Désirée; **Petelle, Matthew B**; von Bayern, Auguste; Krasheninnikova, Anastasia (2023). *On the role of training in delay of gratification paradigms: a reply to Pepperberg 2022.* Animal cognition, 26(3), S. 721-726. Springer 10.1007/s10071-023-01752-7

Grethen, Klara J; Gómez, Yamenah; Toscano, Michael J (2023). *Coup in the coop: Rank changes in chicken dominance hierarchies over maturation.* Behavioural processes, 210, S. 104904. Elsevier 10.1016/j.beproc.2023.104904

Johny, Alex; Guggisberg, Dominik; **Toscano, Michael Jeffery; Stratmann, Ariane** (2023). *This is the way: The effect of artificial cues on early life ramp use behaviour of laying hen chicks.* Applied animal behaviour science, 260, S. 105873. Elsevier 10.1016/j.applanim.2023.105873

Makanjuola, Bayode O; **Gebhardt-Henrich, Sabine G; Toscano, Michael J**; Baes, Christine F (2023). *Genetic parameter estimates for the use of an aviary with winter garden by laying hens. (Im Druck).* Poultry science, 103(3), S. 103369. Elsevier 10.1016/j.psj.2023.103369

Montalcini, Camille M; Petelle, Matthew B; Toscano, Michael J (2023). *Commercial laying hens exhibit long-term consistent individual differences and behavioural syndromes in spatial traits.* Royal Society Open Science, 10(5), S. 230043. The Royal Society Publishing 10.1098/rsos.230043

Montalcini, Camille M; Petelle, Matthew B; Toscano, Michael J (2023). *Commercial hatchery practices have long-lasting effects on laying hens' spatial behaviour and health.* PLoS ONE, 18(12), e0295560. Public Library of Science 10.1371/journal.pone.0295560

Montalcini, Camille M; Toscano, Michael J; Gebhardt-Henrich, Sabine G.; Petelle, Matthew B (2023). *Intra-individual variation of hen movements is associated with later keel bone fractures in a quasi-commercial aviary.* Scientific reports, 13(1), S. 2377. Springer Nature 10.1038/s41598-023-29587-9

Ortal Mizrahy-Rewald, Nathalie Winkler, Frederick Amann, Katharina Neugebauer, **Bernhard Voelkl**, Herwig Grogger, Thomas Ruf, Johannes Fritz. The impact of shape and attachment position of biologging devices in Northern Bald Ibises. **Anim Biotelemetry** 2023; *11*(8):1-15. doi: 10.1186/s40317-023-00322-5

Perinot, Elisa; Fritz, Johannes; Fusani, Leonida; **Völkl, Bernhard**; Nobile, Marco S (2023). *Characterization of bird formations using fuzzy modelling.* Journal of the Royal Society Interface, 20(199), S. 20220798. The Royal Society 10.1098/rsif.2022.0798

Petelle, Matthew B; Jacobs, Paul J; le Roux, Aliza (2023). *Innovative problem-solving in a small, wild canid.* Animal cognition, 26(2), S. 405-413. Springer 10.1007/s10071-022-01678-6

Pullin, Allison N; Rufener, Christina B; Millman, Suzanne T; Tarlton, John F; **Toscano, Michael J**; Blatchford, Richard A; Makagon, Maja M (2023). *Providing elevated structures in the pullet rearing environment affects behavior during initial acclimation to a layer aviary. (Im Druck).* Poultry science, 103(3), S. 103357. Elsevier 10.1016/j.psj.2023.103357

Rocks Devin, **Jaric Ivana**, Bellia Fabio, Cham Hening, Greally M John, Suzuki Masako, Kundakovic Marija. Early-life stress and ovarian hormones alter transcriptional regulation in the nucleus accumbens resulting in sex-specific responses to cocaine. **Cell Rep.** 2023;42(10):113187. Cell Press
doi.org/10.1016/j.celrep.2023.113187

Thomann, Beat; **Würbel, Hanno**; Kuntzer, Thibault; Umstätter, Christina; Wechsler, Beat; Meylan, Mireille; Schüpbach-Regula, Gertraud (2023). *Development of a data-driven method for assessing health and welfare in the most common livestock species in Switzerland: The Smart Animal Health project.* Frontiers in veterinary science, 10(1125806), S. 1125806. Frontiers Media 10.3389/fvets.2023.1125806

2022

Arroyo-Araujo, María; **Voelkl, Bernhard**; Laloux, Clément; **Novak, Janja**; Koopmans, Bastijn; Waldron, Ann-Marie; Seiffert, Isabel; Stirling, Helen; Aulehner, Katharina; Janhunen, Sanna K; Ramboz, Sylvie; Potschka, Heidrun; Holappa, Johanna; Fine, Tania; Loos, Maarten; Boulanger, Bruno; **Würbel, Hanno**; Kas, Martien J (2022). *Systematic assessment of the replicability and generalizability of preclinical findings: Impact of protocol harmonization across laboratory sites.* PLoS biology, 20(11), e3001886. Public Library of Science 10.1371/journal.pbio.3001886

Boneh-Shitrit, Tali; Feighelstein, Marcelo; Bremhorst, Annika; Amir, Shir; Distelfeld, Tomer; Dassa, Yaniv; Yaroshetsky, Sharon; **Riemer, Stefanie**; Shimshoni, Ilan; Mills, Daniel S; Zamansky, Anna (2022). *Explainable automated recognition of emotional states from canine facial expressions: the case of positive anticipation and frustration.* Scientific reports, 12(1), S. 22611. Springer Nature 10.1038/s41598-022-27079-w

Bremhorst, A.; Mills, D. S.; **Würbel, H.; Riemer, S**. (2022). *Evaluating the accuracy of facial expressions as emotion indicators across contexts in dogs.* Animal Cognition, 25(1), S. 121-136. Springer 10.1007/s10071-021-01532-1
Candelotto, Laura; Grethen, Klara J; Montalcini, Camille M; Toscano, Michael J; Gómez, Yamenah (2022). *Tracking performance in poultry is affected by data cleaning method and housing system.* Applied animal behaviour science, 249, S. 105597. Elsevier 10.1016/j.applanim.2022.105597

Colles, Frances M; Karasova, Daniela; Crhanova, Magdalena; Preston, Stephen G; Smith, Adrian L; Dawkins, Marian S; Rychlik, Ivan; **Gebhardt-Henrich, Sabine G** (2022). *High resolution parallel sequencing reveals multistrain Campylobacter in broiler chicken flocks testing 'negative' by conventional culture methods: implications for control of Campylobacter infection.* Poultry science, 101(10), S. 102048. Elsevier 10.1016/j.psj.2022.102048

Gómez, Yamenah; Berezowski, John; Jorge, Yandy Abreu; **Gebhardt, Sabine**; Vögeli, Sabine; **Stratmann, Ariane; Toscano, Michael Jeffrey; Völkl, Bernhard** (2022). *Similarity in Temporal Movement Patterns in Laying Hens Increases with Time and Social Association.* Animals, 12(5) MDPI 10.3390/ani12050555

Grogger A Herwig, Gossar Martin, Makovec Michael, Fritz Johannes, Neugebauer Katharina, Amann Frederik, **Voelkl Bernhard** (2022). A low-cost wind tunnel for bird flight experiments. J Ornithol. 163(2):599-610. Springer Nature
https://link.springer.com/article/10.1007/s10336-021-01945-2
https://doi.org/10.1007/s10336-021-01945-2V

Herrera-Castillo, Carlos Manuel; Geiger, Madeleine; Núñez-León, Daniel; Nagashima, Hiroshi; **Gebhardt-Henrich, Sabine; Toscano, Michael**; Sanchez-Villagra, Marcelo R (2022). *Skeletal variation in bird domestication: limb proportions and sternum in chicken, with comparisons to mallard ducks and Muscovy ducks.* PeerJ, 10(e13229), e13229. PeerJ, Ltd 10.7717/peerj.13229

Hirschi Annina, **Mazini Alja, Riemer Stefanie** (2022). Disentangling help-seeking and giving up: differential human-directed gazing by dogs in a modified unsolvable task paradigm.
Anim Cogn, 1-16. Springer Nature
The *Graduate School for Cellular and Biomedical Sciences* (GCB) of the University of Bern
https://link.springer.com/article/10.1007/s10071-021-01595-0
https://doi.org/10.1007/s10071-021-01595-0

Jaric, Ivana; Völkl, Bernhard; Clerc, Melanie; Schmid, Marc W; **Novak, Janja; Rosso, Marianna**; Rufener, Reto; von Kortzfleisch, Vanessa Tabea; Richter, S Helene; Buettner, Manuela; Bleich, André; Amrein, Irmgard; Wolfer, David P; Touma, Chadi; Sunagawa, Shinichi; **Würbel, Hanno** (2022). *The rearing environment persistently modulates mouse phenotypes from the molecular to the behavioural level.* PLoS biology, 20(10), e3001837. Public Library of Science 10.1371/journal.pbio.3001837

Mizrahy-Rewald Ortal, Perinot Elisa, Fritz Johannes, Vyssotski Alexei L, Fusani Leonida, **Voelkl Bernhard**, Ruf Thomas (2022). Empirical Evidence for Energy Efficiency Using Intermittent Gliding Flight in Northern Bald Ibises. Front. Ecol. Evol. 10:891079. Frontiers Media SA
https://www.frontiersin.org/articles/10.3389/fevo.2022.891079/full
https://doi.org/10.3389/fevo.2022.891079

Montalcini, Camille Marie; Völkl, Bernhard; Gómez, Yamenah; Gantner, Michael; **Toscano, Michael J.** (2022). *Evaluation of an Active LF Tracking System and Data Processing Methods for Livestock Precision Farming in the Poultry Sector.* Sensors, 22(2), S. 659. Molecular Diversity Preservation International MDPI 10.3390/S22020659

Novak, Janja; Jaric, Ivana; Rosso, Marianna; Rufener, Reto; Touma, Chadi; **Würbel, Hanno** (2022). *Handling method affects measures of anxiety, but not chronic stress in mice.* Scientific Reports, 12(1), S. 20938. Nature Publishing Group 10.1038/s41598-022-25090-9

Rosso, Marianna; Wirz, Robin; Loretan, Ariane Vera; Sutter, Nicole Alessandra; Pereira da Cunha, Charlène Tatiana; **Jaric, Ivana; Würbel, Hanno; Völkl, Bernhard** (2022). *Reliability of common mouse behavioural tests of anxiety: A systematic review and meta-analysis on the effects of anxiolytics.* Neuroscience and biobehavioral reviews, 143(104928), S. 104928. Elsevier 10.1016/j.neubiorev.2022.104928

Stolzlechner, Lisa; Bonorand, Alina; **Riemer, Stefanie** (2022). *Optimising Puppy Socialisation-Short- and Long-Term Effects of a Training Programme during the Early Socialisation Period.* Animals, 12(22) MDPI 10.3390/ani12223067

Uccheddu Stefania, Ronconi Lucia, Albertini Mariangela, Coren Stanley, Da Graça Pereira Gonçalo, De Cataldo Loriana, Haverbeke Anouck, Mills Daniel Simon, Pierantoni Ludovica, **Riemer Stefanie**, Testoni Ines, Pirrone Federica (2022). Domestic dogs (*Canis familiaris*) grieve over the loss of a conspecific. *Sci Rep* **12**, 1920. Springer Nature https://doi.org/10.1038/s41598-022-05669-y https://www.nature.com/articles/s41598-022-05669

Vasdal, G; **Gebhardt-Henrich, S G**; Tahamtani, Fernanda; Kittelsen, K E (2022). *Effect of perch access on perching, health and production outcomes in commercial broiler breeder flocks.* Poultry science, 101(11), S. 102160. Elsevier 10.1016/j.psj.2022.102160

Vollert, Jan; Macleod, Malcolm; Dirnagl, Ulrich; Kas, Martien J; Michel, Martin C; Potschka, Heidrun; Riedel, Gernot; Wever, Kimberley E; **Würbel, Hanno**; Steckler, Thomas; Rice, Andrew S C (2022). *The EQIPD framework for rigor in the design, conduct, analysis and documentation of animal experiments.* Nature methods, 19(11), S. 1334-1337. Nature Publishing Group 10.1038/s41592-022-01615-y

von Kortzfleisch, Vanessa Tabea; Ambrée, Oliver; Karp, Natasha A; Meyer, Neele; **Novak, Janja**; Palme, Rupert; **Rosso, Marianna**; Touma, Chadi; **Würbel, Hanno**; Kaiser, Sylvia; Sachser, Norbert; Richter, S Helene (2022). *Do multiple experimenters improve the reproducibility of animal studies?* PLoS biology, 20(5), e3001564. Public Library of Science 10.1371/journal.pbio.3001564

Wehner Helena, Fritz Johannes, **Voelkl Bernhard** (2022). Soaring and intermittent flap-gliding during migratory flights of Northern Bald Ibis. *J Ornithol* 163, 671–681. Springer Nature https://link.springer.com/article/10.1007/s10336-022-01978-1 https://doi.org/10.1007/s10336-022-01978-1

Winter, J; **Toscano, M J; Stratmann, A** (2022). *The potential of a light spot, heat area, and novel object to attract laying hens and induce piling behaviour.* Animal : an international journal of animal bioscience, 16(8), S. 100567. Elsevier 10.1016/j.animal.2022.100567

Zivanović Jasmina, **Jaric Ivana**, Ajdzanović Vladimir, Miler Marko, Stankovic Sanja, Milosevic Verica, Filipovic Branko (2022). Genistein regulates calcium and phosphate homeostasis without activation of MEK 1/2 signalling pathway in an animal model of the andropause. Ann Anat. 239:151836. Elsevier, https://doi.org/10.1016/j.aanat.2021.151836 https://www.sciencedirect.com/science/article/pii/S094096022100162X?via%3Dihub

6.2. Completed Dissertations & Master (M.Sc.) Work on research

6.2.1. Division VPH/Epidemiology

Residents: Diplomate ECVPH

- 2021: Filipe Maximiano
- 2022: Ranya Özcelik

Dissertations

- 2023: PhD Maria Elena Vargas Amado, University of Zurich, Spatial Aspects of Potential Disease Spread and Its Containment Among Free-Ranging Wild Boar in Switzerland Considering Possible Spillover to Domestic Pigs

Master Theses

- 2022: Camille Doras, Master of Advanced Studies in Public Health, University of Geneva, research project: Community-based symptoms reporting in two Chadian agro-pastoralist communities and their livestock in a One Health approach – Analysis of a retrospective cross-sectional survey
- 2022: Kathleen Moriarty, Master Swiss Tropical and Public Health Institute, research project: Modeling the Spread of Infectious Diseases Among Swiss Swine Farms
- 2023: Emilie Molnar, Master thesis Vetsuisse Faculty Bern: Analysis of Intramammary Antibiotic Treatment of cattle in Switzerland
- 2023: Rebecca Knell, Master thesis Vetsuisse Faculty Zürich: Analysis of IS-ABV Data on antibiotic treatments of dogs and cats in 2020

6.2.2. Division Animal Welfare

Dissertations

- 2022 PhD Marianna Rosso: Construct Validity of Behavioural Tests Assessing Anxiety in Mice
- 2023 Mark Soltermann, Vetsuisse Faculty Bern: Verhaltensuntersuchung zur Rampennutzung bei Schwimmgelegenheiten für Mastgänse
- 2023 PhD Alex Johny: Promoting ramp usage in early life of laying hens

Master Theses

- 2022 Alina Bonorand (Faculty of Science): Use and preference for shelter: Do mice prefer burrowing over access to artificial shelter?
- 2022 Christina Streiff (Faculty of Science): The effect of partial cage dividers on clinical, behavioral and endocrinological measures of aggressivity male laboratory mice
- 2022 Sarah Lopez, Master thesis Vetsuisse Faculty Bern: Can straw or compost satisfy the rooting motivation of fattening pigs?
- 2023 Milena Sanches Fortes, Master thesis Vetsuisse Faculty Bern: How do mice use space in enriched pet cages?
- 2022 Heidi Niermann, Master thesis Vetsuisse Faculty Zürich: Sociopositive behavior in female breeding rabbits in part-time group housing

6.3. Awards and prizes for research

6.3.1. Division VPH/Epidemiology

- 2023 Filipe Maximiano - the People's Choice Awards for Best Flash Talk, Biomedical Sciences category at the 2023 GCB annual symposium
- 2023 Dima Farra – Poster Price, Annual Conference VPHI
- 2023 Laura da Silva – Global One Health Prize (co-hosted with Wageningen University & Research (WUR), Food and Agriculture Organization of the United Nations (FAO))

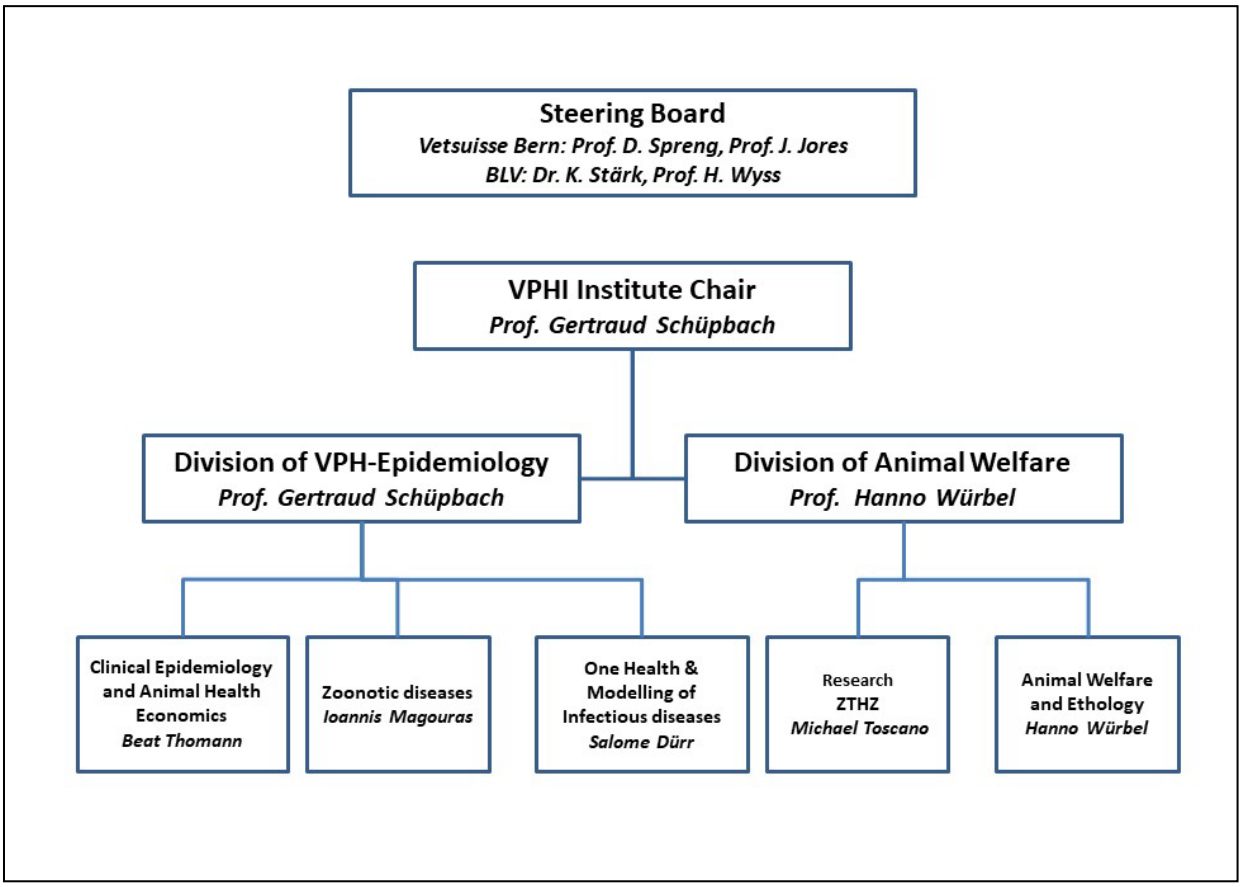
6.3.2. Division Animal Welfare

- 2022 Annika Bremhorst – Albert-Heim Stiftung Anerkennungspreis
- 2022 Jakob Winter – Prix Jean-Pierre Miéville
- 2022 Laura Candelotto – best Poster prize, 55th Congress of International Society for Applied Ethology (ISAE)
- 2023 Ivana Jaric – Prix Jean-Pierre Miéville
- 2023 Jakob Winter – research prize International Society for Livestock Husbandry (IGN)

7. The VPHI introduces itself

The institute is strategically guided by a steering board consisting of representatives of the two main funding organizations: 1) the Vetsuisse Faculty, University of Bern, and 2) Swiss Federal Food Safety and Veterinary Office (FSVO). The current members of the steering board are David Spreng (dean of the Vetsuisse Faculty), Jörg Jores (head finances at the Vetsuisse Faculty), Katharina Stärk (head of the animal health department, FSVO) and Hans Wyss (chief veterinary officer).

7.1. Org chart 2022/2023



As of May 2023

7.2. Team VPH/Epidemiology

In the picture:
Beat Thomann, Beatriz Vidondo, Adrian Minnig, Anna-Sophia Stocker, Gertraud Schüpbach, Janine Miesch, Silja Griss, Valerie Hungerbühler, Marielle Schär-Selby, Susanne Lerch, Lilian Goepp, Dima Farra, Camille Doras, Giulia Savioli, Guy Schnidrig, Laura da Silva, Filipe Maximiano, Salome Dürr, Ioannis Magouras

7.3. Team Animal Welfare

In the picture:
Bernhard Völkl, Michael Toscano, Hanno Würbel, Stefanie Riemer, Sabine Gebhardt, Christina Streiff, Yamenah Gómez, Ivana Jaric, Nicole Sutter, Marianna Rosso, Klara Grethen, Alex Johny, Janja Novak, Annika Bremhorst, Marie Roig-Pons, Thomas Heinzel, Jakob Winter, Laura Candelotto, Camille Montalcini, Masha Marincek, Alja Mazzini, Homare Yamahachi, Abdulsatar Abdel Rahman, Alina Bonorand, Ariane Stratmann.

7.4. Secretary and administration

- Lerch, Susanne

7.5. Maps and contact address

VPHI-Liebefeld, Schwarzenburgstr. 161, 3097 Liebefeld,
Tel.: +41 (0)31 631 5738
Email: info@vphibern.ch / www.vphi.ch

VPHI-Epidemiologie, Hallerstrasse 6, 3012 Bern

VPHI-Tierschutz animal hospital, Länggassstr. 120, 3012 Bern
Tel.: +41 (0)31 631 2428
Email: info@vphibern.ch / www.tierschutz.vetsuisse

Forschungszentrum für tiergerechte Haltung: Geflügel und Kaninchen (ZTHZ)
Abteilung Tierschutz, VPH Institut, Universität Bern
Burgerweg 22
3052 Zollikofen, Schweiz.

Aviforum

Imprint
Editor:
Veterinary Public Health Institute
Vetsuisse Faculty
University of Berne
www.vphi.ch

editorial staff:
Gertraud Schüpbach, Hanno Würbel, Susanne Lerch

Design cover page: Michelle Gygax

May 2024

Universität Bern | Universität Zürich

vetsuisse-fakultät

UNIVERSITÄT BERN

VETERINARY • PUBLIC • HEALTH • INSTITUTE

In cooperation with:

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Federal Department of Home Affairs (FDHA)

Federal Food Safety and Veterinary Office (FSVO)