



HAL
open science

Peculiarities of analysis of pregnancies and placental sampling

Pascale Chavatte-Palmer

► **To cite this version:**

Pascale Chavatte-Palmer. Peculiarities of analysis of pregnancies and placental sampling. Training School: Principles and Procedures of Tissue Sampling and Biobanking including Legal and Ethical Aspects, European Cooperation in Science and Technology (COST). BEL., Mar 2017, Munich, Germany. hal-01605264

HAL Id: hal-01605264

<https://hal.science/hal-01605264>

Submitted on 4 Jun 2020

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



TRAINING SCHOOL

Principles and Procedures of Tissue Sampling and Biobanking Including Legal and Ethical Aspects

March 27-31, 2017, Munich, DE

Key topics:

- Large animal models
- Biobanking
- Systematic random sampling
- Stereology
- Transcriptomics
- Proteomics
- Bioinformatics
- Animal welfare
- Ethics
- Replace, Reduce, Refine
- Public awareness

Faculty:

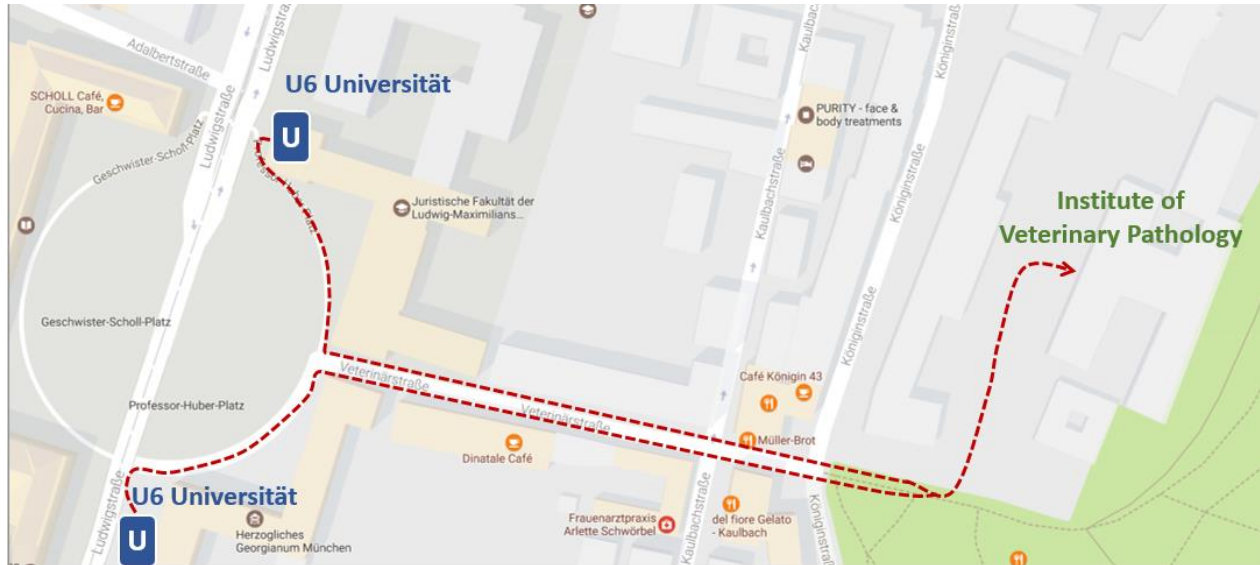
Georg J. Arnold (DE)
Helmut Blum (DE)
Andreas Blutke (DE)
Charlotte Brandt Sørensen (DK)
Tiziana Brevini (IT)
Pascale Chavatte-Palmer (FR)
Thierry Gidenne (FR)
Ralf Huss (DE)
Sietse-Jan Koopmans (NL)
Vasiliki Mollaki (GR)
Simone Renner (DE)
Teun Schuurman (NL)
Nicola Stingelin (CH)
Heleen van Beusekom (NL)
Rüdiger Wanke (DE)
Eckhard Wolf (DE)

www.salaam.genzentrum.lmu.de

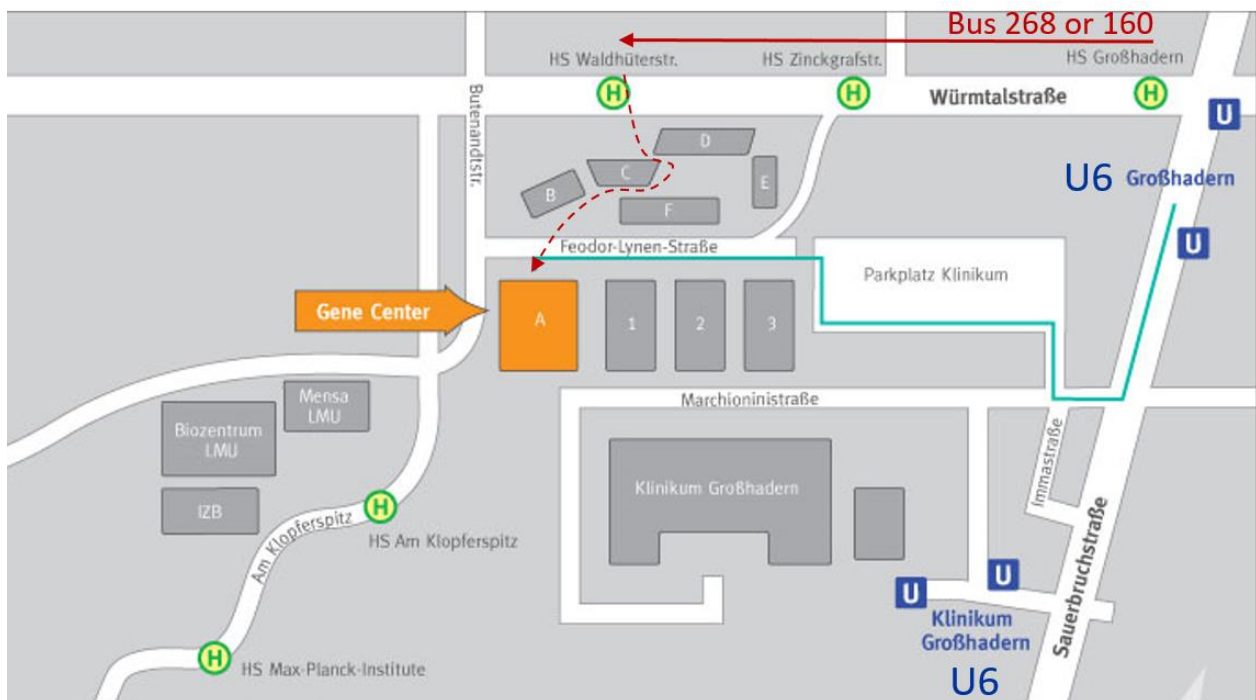


Training sites

- A) Institute of Veterinary Pathology, LMU Munich, Veterinärstr. 13, D-80539 Munich, DE
(Sunday, Monday, Tuesday, Friday)



- B) Gene Center, LMU Munich, Feodor-Lynen-Str. 25, D-81377 Munich, DE
(Wednesday, Thursday)



Programme

Sunday, 26.03.2017 (Institute of Veterinary Pathology)

from 18.00	Arrival and get together
------------	--------------------------

Monday, 27.03.2017 (Institute of Veterinary Pathology)

Biobanking – Background and Principles

9.00	Introduction of SALAAM - Why and What? Eckhard Wolf, Action Chair (DE)
9.15	Goals and Achievements SALAAM WG3 Charlotte Brandt Sørensen, WG3 leader (DK)
9.30	Anatomical and Physiological Peculiarities and Interest of the Rabbit as Model, Sampling Specificities Thierry Gidenne (FR)
10.30	Coffee Break
11.00	The SALAAM Databases Sietse-Jan Koopmans, WG3 leader (NL)
11.15	Biobanking of Human and Animal Samples – General Considerations Heleen van Beusekom (NL)
12.30	Lunch Break
14.00	Principles of Stereology Rüdiger Wanke (DE)
15.15	Automated Image Analysis for Pattern Recognition and Phenotype Discovery in Histopathology Bettina Winkler, Ralf Huss (DE)
16.00	Coffee Break
16.30	Peculiarities of Analysis of Pregnancies and Placental Sampling Pascale Chavatte-Palmer, Action Vice-Chair (FR)
17.15	Ethics Reflections on Biobanks - Relevance for Projects such as SALAAM Nicola Stingelin, WG4 leader (CH)
18.00	Free evening

Tuesday, 28.03.2017 (Institute of Veterinary Pathology)
Practical Biobanking

9.00	Blood Sampling Procedures in Conscious Large Animals and Their Impact on Welfare Teun Schuurman (NL)
9.45	Blood and Tissue-Sampling Techniques in (Drug) Safety Research in Non-Rodent Species: Welfare Assessment in Toxicity Research Teun Schuurman (NL)
10.30	Coffee Break
11.00	Introduction of the Pig Sampling Protocol and the Munich MIDY Pig Biobank Andreas Blutke (DE)
12.30	Lunch Break
13.30	Practical Establishment of a Pig Biobank Andreas Blutke & Team (DE)
16.00	Coffee Break
16.30	Pig Models for Diabetes and Obesity Research, Assessment of Glucose Homeostasis in Pig Models Simone Renner (DE)
17.15	Questions and Discussion –Including Ethics All
18.00	Free Evening

Wednesday, 29.03.2017 (Gene Center)

Processing and Profiling of Tissues using Omics Technologies

Module Genomics/Transcriptomics & Proteomics

9.00	Methods and Concepts of Modern Proteome Analysis Georg J. Arnold (DE)
10.30	Coffee Break
11.00	Transcriptome Profiling for Biobank Projects Helmut Blum, Stefan Krebs & Julia Philippou Massier
11:45	Single Cell RNA-Seq to Study Early Bovine Embryos Ilaria Lavagi
12.30	Lunch Break
<u>Group 1: Transcriptomics & Genomics</u>	
13.30-16:30	Practical Experiment: DNA Sequencing with Nanopores Stefan Krebs
<u>Group 2: Proteomics</u>	
13.30	Visit of the Mass Spectrometry Lab at the Gene Center Florian Flenkenthaler, Thomas Fröhlich, Katrin Meyer & Jan Stöckl (DE)
14.00	Practical experiment/example: LC-MS/MS Analysis of Peptides Florian Flenkenthaler, Thomas Fröhlich, Katrin Meyer & Jan Stöckl (DE)
14.45	From Mass Spectra to Protein Identifications Thomas Fröhlich (DE)
15.30	Practical Experiment/Example: Bioinformatic Analysis of LC-MS/MS data Florian Flenkenthaler, Thomas Fröhlich, Katrin Meyer & Jan Stöckl (DE)
16.00	Coffee Break
16.30	Questions and Discussion – Including Ethics All

Thursday, 30.03.2017 (Gene Center)

Module Genomics/Transcriptomics & Proteomics

9.00	RNA-Seq of Cloned Early Bovine Embryos Mari Heininen-Brown
9.45	A Database Application for the Analysis of a <i>M. caprae</i> Collection Ashok Varadharajan
10.30	Coffee Break
11.00	Advanced Mass Spectrometry of Peptides and Proteins Thomas Fröhlich (DE)
11:45	Lecture: Proteomic Analysis of Tissues from the Munich MIDY Pig Biobank Florian Flenkenthaler (DE)
12.30	Lunch Break
<u>Group 1: Transcriptomics & Genomics</u>	
13.30-16:30	Practical Experiment: DNA Sequencing with Nanopores Stefan Krebs
<u>Group 2: Proteomics</u>	
13.30	Visit of the Mass Spectrometry Lab at the Gene Center Florian Flenkenthaler, Thomas Fröhlich, Katrin Meyer & Jan Stöckl (DE)
14.00	Practical experiment/example: LC-MS/MS Analysis of Peptides Florian Flenkenthaler, Thomas Fröhlich, Katrin Meyer & Jan Stöckl (DE)
14.45	From Mass Spectra to Protein Identifications Thomas Fröhlich (DE)
15.30	Practical Experiment/Example: Bioinformatic Analysis of LC-MS/MS data Florian Flenkenthaler, Thomas Fröhlich, Katrin Meyer & Jan Stöckl (DE)
16.00	Coffee Break
16.30	Questions and Discussion – Including Ethics

Friday, 31.03.2017 (Institute of Veterinary Pathology)

Legal and Ethical Aspects

9.00	Pig-to-Primate Xenotransplantation – State of the Art Eckhard Wolf, Action Chair (DE)
9.45	Ethical Issues of Transplanting Organs from Transgenic Animals into Humans Vasiliki Mollaki (GR)
10.30	Coffee Break
11.00	The Researchers' View of Scientific Rigor- Survey on the Conduct and Reporting of In Vivo Research Nicola Stingelin, WG4 leader (CH)
11.45	Communication Techniques of Research Results to the Public "From the Bench-Side to the Public" Tiziana Brevini, WG4 leader (IT)
12.30	Lunch & Farewell

List of Trainers

List of Trainees