

5th HEFagrar PhD Symposium

April 10, 2019



Programme

Programme part I

9:00 Welcome (Seminar room 88, Liesel-Beckmann-Str. 2)

9:15 T1: Bernhard Klinger
CRISPR/Cas9 mediated gene editing in porcine cells and embryos

9:30 T2: Sabine Farschtschi
High-resolution immunophenotyping in bovine blood and milk

9:50 "Elevator pitch" -> poster introductions (2 min each), P1 – P8

10:10 Coffee break (20 min)

10:30 T3: Joanna Kakoulidou
*High-Throughput precision phenotyping of a large panel of *A. thaliana* epigenetic hybrids reveals widespread heterosis in developmental traits*

10:45 T4: Parvinderdeep Kahlon
Molecular diversity of pathogen defense in a wild tomato species

11:00 T5: Miljenka Vuko
*Succession of *exo-* and lipopolysaccharide producing bacteria follows a management shift in soil reclamation chronosequence*

11:15 "Elevator pitch" -> poster introductions (2 min each), P9 – P14

11:30 Poster-Session (Foyer)

12:30 Lunch (Seminar Room 83/84)

Programme part II

13:15 T6: Michael Marszalek
Sustainable Agriculture with Big Data

13:30 T7: Ekaterina Sycheva
Simulation of adaptive forest management in Europe in new climate conditions

13:45 T8: Stefan Wimmer
The impact of credit access on farm productivity growth: Evidence from a field experiment in rural China

14:00 T9: Veronika Hannus
Increasing acceptance of sustainability standards amongst farmers: Evidence from a choice experiment in Germany

14:15 Coffee break (30 min), **Voting:** “best poster”/”best pitch”/”best talk”

14:45 Carmen Baur – TUM start-up consultant [TUM ForTe]

*Founding in the area of food and agtech:
What does TUM offer for founders?*

15:10 Pitch-presentation by start-ups

- OCELL („special sensor system for visual assessment of health status of plants by multispectral imaging“)
- CULTIVATA („indoor planters for the fully autonomous supply of water and nutrients“)
- WOODCHICKEN (“cultivation of an edible tree mushroom as a meat alternative“)
- NANOSOR (“mobile sensor system to analyse environmental parameters and nutrient concentrations“)

16:10 Dr. Cecile Henrich-Burkhardt
„Patents and licenses at TUM: what is intellectual property and how can you protect it.“

16:45 Awards, Conclusions and “Wrap up” with Beer & Brezen

Postersession [11:30, Foyer]

Animal Sciences

- P1: Schmeling, Lara:** *Development of a sensor based health monitoring system for grating cows*
- P2: Wei, Liang:** *Gene editing in pigs by CRIPR/Cas9 to overcome barriers for xenotransplantation*
- P3: Winogrodzki, Thomas:** *Red meat allergy – development and impact of microbiome in α -1,3-Gal-knockout pigs*
- P4: Kuenz, Sylvia:** *Trypsin inhibitor activity in soybean massively depresses prececal amino acid digestibility in broilers*
- P5: Paczkowski, Anna:** *Small legumes as a protein and roughage source in organic feeds for pigs and poultry*

Plant Sciences

- P6: Metz, Nicole:** *Occurrence and temporal spreading of Sdh mutants in Alternaria solani in Germany between 2013 and 2016*
- P7: Hoheneder, Felix:** *Disease resistance of climate adapted spring barley genotypes*
- P8: Small, Corinn:** *Pathogen adaptations to host and climate in a wild plant-pathosystem*
- P9: Kolarek Martina:** *Histological analyses on the fruit development of red-fleshed apples*

Engineering/Sensoring/Data Science/Digitalization

- P10: Hofmann, Markus:** *Comparative evaluation of state-of-the-art barn hay drying systems*
- P11: Liebhardt, Peter:** *Investigation on harvesting techniques and conservation of alfalfa and red clover leaves as a protein and roughage feed for monogastrics*
- P12: Mittermayer, Martin:** *Mapping spatial variability of soil properties and yield*
- P13: Ostovari, Yaser:** *Developing models to predict C- and nutrient distribution in soils using hyperspectral imaging*
- P14: Pfeiffer, Johanna:** *Social acceptance of digital livestock farming technologies*