

TUM Summer School 2019 "Selection and Breeding"



June 25 – July 2, 2019
Herrsching am Ammersee, Germany

Lecturers: Bruce Walsh, University of Arizona and Guilherme Rosa, University of Wisconsin-Madison

The TUM Summer School 2019 will provide an introduction to classical and genome-based selection theory and breeding methodology. The Summer School will be taught by Professor Bruce Walsh of the University of Arizona and Professor Guilherme Rosa of the University of Wisconsin-Madison, two of the leading authorities in this field. A guest lecturer from Computomics will give an introduction to machine learning. The course consists of lectures and practical components with hands-on exercises. Registration will open in March.

Topics covered:

- Introduction to estimation of genetic parameters using Bayesian MCMC techniques
- Introduction to machine learning
- Introduction to selection theory
- Single-trait selection
- Multi-trait selection
- Genome-based selection

Target group and requirements:

- The course is intended for researchers in the field of quantitative genetics, breeding, and biostatistics from academia as well as from industry.
- Knowledge of matrix algebra and programming in R is desirable.

Course language: English

Number of participants: 30

Services:

Please visit the homepage of the course venue: www.hdbl-herrsching.de.

For updated information on the course please have a look at the TUM Summer School 2019 website: www.plantbreeding.wzw.tum.de/index.php?id=133.

Contact:

Chair of Plant Breeding
TUM School of Life Sciences Weihenstephan
Technische Universität München
Ulrike Utans-Schneitz, Ute Wiegand
Liesel-Beckmann-Str. 2
85354 Freising, Germany
Tel +49.8161.71.5226
plantbreeding.wzw@tum.de
www.plantbreeding.wzw.tum.de