COST ACTION TRAINING SCHOOL

COMPUTATIONAL GENETICS FOR PLANT BIOLOGISTS

May 21st–22nd, 2025
Center for Quantitative Genetics and Genomics
Aarhus University, Aarhus, Denmark
C. F. Møllers Allé 3, 8000 Aarhus

Course in English
3 ECTS (to graduate students) for attendance and submission of a final report

The training school in computational genetics is specifically tailored for plant biologists, and open to early-career researchers, PhD students, and postdocs with basic knowledge of R and shell scripting.

Program

Wednesday, May 21st

- R and the command line
- Principles of experimental design
- Introduction to quantitative genetics
- Genome-wide association studies (GWAS)
- Population stratification in genetic studies

After each lecture, participants engage in hands-on sessions

Thursday, May 22nd

- Functional annotations
- From variant effect to genome-wide prediction
- Model performance via cross-validation
- Genomic variance partition

Instructors

Assist. Prof. Guillaume Ramstein[1], ramstein@qgg.au.dk
Assist. Prof. Marta Malinowska[1], m.malinowska@qgg.au.dk
Assist. Prof. Elesandro Bornhofen[1], bornhofen@qgg.au.dk
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Registration

Registration is free. Deadline is March 21st, 2025
There are 15 participant spots, including 7 travel grants. Travel grants are available for selected participants from COST and neighboring countries
For registration, please visit recrop-cost.com/

Note

Attendees are expected to **bring their own computers** to the training school