

# PSL-Qlife Quantitative Biology Winter School 2025, March 10<sup>th</sup> -14<sup>th</sup>

## Polygenic Adaptation: from Quantitative Genetics to Population Genomics

Monday, March 10<sup>th</sup>

8:20 - 8:40 am Welcome Coffee

8:40 - 9:00 am  
**H. Teotónio & P. Charnay**  
Introduction to workshop

9:00 - 9:50 am  
**Nick Barton**  
Limits to detection of polygenic adaptation

9:50 - 10:15 am Coffee break

10:15 - 11:05 am  
**Christian Schlötterer**  
TBA

11:05 - 11:55 am  
**Student presentations (Flash talks)**

12:00 - 1:30 pm Lunch

1:30 - 4:30 pm  
Digital workshop  
**Employing population genetic simulations to understand polygenic adaptation, part I**  
Ben Wöflf  
Diogo Ribeiro

1:30 - 4:30 pm  
Digital workshop  
**Simulating sweeps and adaptation in evolution experiments using SLiM, part I**  
Neda Barghi  
Changyi Xiao

4:30 - 5:00 pm Coffee break

5:00 - 6:00 pm  
**Ben Wöflf**  
TBA

Tuesday, March 11<sup>th</sup>

8:45 - 9:00 am Morning Coffee

9:00 - 9:50 am  
**Luisa Pallares**  
TBA

9:50 - 10:15 am Coffee break

10:15 - 11:05 am  
**Frédéric Guillaume**  
TBA

11:05 - 11:55 am  
**Neda Barghi**  
Insights from evolution experiments in *Drosophila*

12:00 - 1:30 pm Lunch

1:30 - 4:30 pm  
Digital workshop  
**Employing population genetic simulations to understand polygenic adaptation, part II**  
Ben Wöflf  
Diogo Ribeiro

1:30 - 4:30 pm  
Digital workshop  
**Simulating sweeps and adaptation in evolution experiments using SLiM, part II**  
Neda Barghi  
Changyi Xiao

4:30 - 5:00 pm Coffee break

5:00 pm - 7 pm  
**Poster session I  
Wine & Cheese**

Wednesday, March 12<sup>th</sup>

8:45 - 9:00 am Morning Coffee

9:00 - 9:50 am  
**Céline Teplitsky**  
TBA

9:50 - 10:15 am Coffee break

10:15 - 11:05 am  
**Bertrand Servin**  
Inference on polygenic selection in livestock breeding programs

11:05 - 11:55 am  
**Timothée Flutre**  
Plant-plant interactions in crop breeding

12:00 - 1:30 pm Lunch

1:30 - 4:30 pm  
Digital workshop  
**Genomic prediction for quantitative traits**  
Bertrand Servin  
Timothée Flutre  
Elise Tourrette

1:30 - 4:30 pm  
Digital workshop  
**Pedigrees, the animal model and estimating heritability**  
Pierre de Villemereuil  
François Mallard  
Matthieu Pichéné

4:30 - 5:00 pm Coffee break

5:00 - 6:00 pm  
**Katrina McGuigan**  
TBA

7:30 pm  
**Faculty dinner**

Thursday, March 13<sup>th</sup>

8:45 - 9:00 am Morning Coffee

9:00 - 9:50 am  
**Susan Johnston**  
TBA

9:50 - 10:15 am Coffee break

10:15 - 11:05 am  
**Henrique Teotónio**  
Polygenicity and the evolution of recombination

11:05 - 11:55 am  
**François Mallard**  
Predicting multivariate phenotypic evolution with the infinitesimal model

12:00 - 1:30 pm Lunch

1:30 - 4:30 pm  
Digital workshop  
**GWAS for quantitative traits**  
Bertrand Servin  
Timothée Flutre  
Elise Tourrette

1:30 - 4:30 pm  
Digital workshop  
**Pleiotropy and multivariate evolution**  
François Mallard  
Pierre de Villemereuil

4:30 - 5:00 pm Coffee break

5:00 - 6:00 pm  
**Patrick Phillips**  
TBA

6:00 pm - 8 pm  
**Poster session II  
Cocktail**

Friday, March 14<sup>th</sup>

8:45 - 9:00 am Morning Coffee

9:00 - 9:50 am  
**Jacqueline Sztepanacz**  
TBA

9:50 - 10:15 am Coffee break

10:15 - 11:05 am  
**Erik Svensson**  
Correlational selection in the age of genomics

11:05 - 11:55 am  
**Pierre de Villemereuil**  
Nonlinear quantitative genetics and phenotypic plasticity

12:00 - 1:30 pm Lunch

1:30 - 4:30 pm  
Digital workshop  
**Non-Gaussian traits and non-linear Quantitative Genetics**  
Pierre de Villemereuil  
Léa Koch

1:30 - 4:30 pm  
Digital workshop  
**Correlated selection and multivariate Evolution**  
François Mallard

4:30 - 5:00 pm Coffee break

5:00 - 5:30 pm  
**Closing remarks**