Qlife
Quantitative Biology Winter School Series

Polygenic Adaptation
From Quantitative Genetics to Population Genomics

March 10th - 14th, 2025 - Paris

Lecturers & Speakers
Neda BARGHI, Vienna
Nicholas BARTON, Vienna
Timothée FLUTRE, Paris
Frédéric GUILLAUME, Helsinki
Susan JOHNSTON, Edinburgh
François MALLARD, Paris
Katrina McGUIGAN, Brisbane
Luisa PALLARES, Tübingen
Patrick PHILLIPS, Eugene
Christian SCHLÖTTERER, Vienna
Bertrand SERVIN, Toulouse
Erik SVENSSON, Lund
Jacqueline SZTEPANACZ, Toronto
Henrique TEOTÓNIO, Paris
Céline TEPLITSKY, Montpellier
Pierre de VILLEMEREUIL, Paris
Ben WÖLFL, Vienna

Coordinators
Patrick CHARNAY, Paris
Christian SCHLÖTTERER, Vienna
Henrique TEOTÓNIO, Paris

Adaptation to novel environments depends on many alleles with small, hence largely undetectable, fitness effects. With the advance of DNA sequencing technologies, the combination of genome-wide association analyses with genomic prediction methods has become the state-of-the-art approach to link adaptive trait responses to genetic changes at the molecular level. The workshop will introduce students to evolutionary theory and the tools employed to test alternative models of polygenic adaptation. Current advances in detecting polygenic adaptation in experimental and natural population will be discussed. The course will introduce the participants to the analysis of phenomic and genomic data covering the latest software.

The course will include introductory lectures in the mornings, followed by digital practicals in the afternoons. The evenings will include keynote speaker seminars and poster presentations by the students.

Common lunches and dinners with the speakers and instructors will foster informal discussions.

The winter school is limited to 25 participants. It is open to Master 2 and PhD students, as well as postdocs, engineers and junior scientists, with backgrounds in life sciences, physics, computer science or mathematics, and a strong interest in evolutionary genetics.

Experience in file manipulation under Unix/Linux and Python or R programming is required.

Additional information is available on: https://www.edu.bio.ens.psl.eu/spip.php?article287

Application deadline January 8th, 2025
Registration fees: 150 €*

- Register through the following link: https://forms.office.com/e/1VySeNcY0Y
- In addition, provide a CV, a motivation letter and a supporting letter from a supervisor as a simple pdf file with "Qlife Polygenic Adaptation Winter School2025_LASTNAME" as subject header to Aida.Fakhr@curie.fr

* *Fees cover lunches from Monday to Friday and some dinners.*

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