Zurich-Basel Plant Science Center

PhD Program in Plant Sciences:
Genetic Diversity: Analysis (GDA) (ETH 701-1425-01L)

Lecturers: Dr. Jean-Claude Walser and Dr. Niklaus Zemp
Genetic Diversity Centre (GDC), ETH Zürich
Location: CHN G42
Dates: 17.06.-28.06.24 (W25-W26)
Credit Points: 2 ECTS

The course **Genetic Diversity: Analysis** is organized by the Genetic Diversity Centre (**GDC**). The GDC is a knowledge and technology platform of the D-USYS Department at ETH Zurich. We offer two annual courses: a molecular laboratory techniques course (Genetic Diversity: Techniques) and a sequencing data analysis course (Genetic Diversity: Analysis). For more than 12 years, the GDC has been supporting researchers in planing their experiments and in obtaining and analyzing their data. With this course, we try to transfer our accumulated knowledge to younger scientists.

Course Objectives
The course provides training in the handling and analysis of genomic data. The focus is on high-throughput sequencing data. Special emphasis is placed on reproducibility and report writing. A self-study with learning objectives helps to apply the theoretical part. The course should not be a copy-paste exercise. Your willingness to ask questions and discuss approaches is essential.

Course Format
The course is run over two weeks to give participants time to digest and apply what they have learnt at their own pace. It is our aim that students understand the applications and have time to question them.

Number of Participants
We can accept max. 4 students from the PSC (Plant Science Center).

Individual Performance and Assessment
You will have the opportunity to work on a project of your choice using your data. Students interested in the credit must submit a final project report.

Please contact us if you have questions about the course: jean-claude.walser(🖐)usys.ethz.ch, Subject: MDA23: Question. We are open to suggestions and ideas.

Course Website: https://www.gdc-docs.ethz.ch/GeneticDiversityAnalysis/GDA/site/