Course intro



Course staff

Hadas Volkov - teacher

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Prof. Itay Mayrose - academic supervisor

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Date and time

We meet every Sunday - 09:15 - 12:00

Sherman 009

10

Lesson

3

4

5

6

8

Date

03.11.24

10.11.24

17.11.24

24.11.24

01.12.24

08.12.24

- 11 26.01.25
- 12 02.02.25

15.12.24 22.12.24

Final project:

02.03.25

- 05.01.25 12.01.25
- 19.01.25

Course objectives

• Give students a broad introduction to NGS and genomic data analysis

Provide actual tools for performing various tasks

More practice and relevant theory

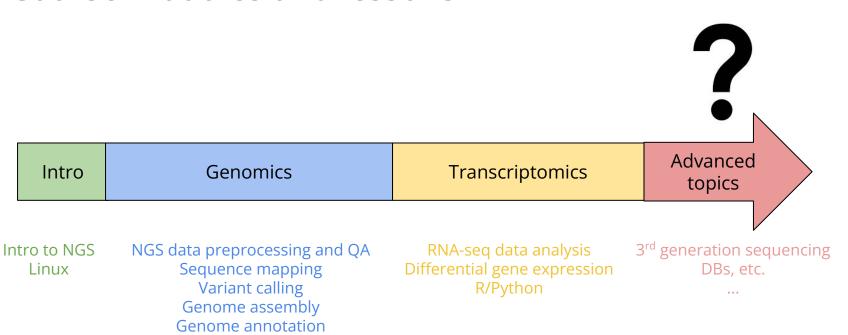
At the end of the course you will...

- Be able to independently work with NGS data related to your research
- Be familiar with many common tasks related to NGS
- Know how to use a variety of computational tools to perform these tasks
- Understand the basic theory behind these tools
- Be able to use and interpret file formats common in NGS/genomics
- Be able to use a modern computational working environment
- Have some experience with real-world NGS data
- Be familiar with modern terminology and technologies

The Genomics Toolbox



Course modules and lessons

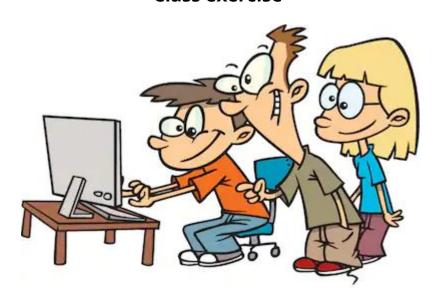


Lesson structure

Theoretical lesson



Class exercise



Final grade

- 30% exercises
 - Starting on lesson 2
 - Two weeks to submit each exercise on Moodle
 - Pass
 - Must submit at least 8 exercises

- 70% final project
 - Can be done in pairs (or solo)
 - Submission deadline: 02.03.2025

Course resources

- GitHub https://github.com/hadasvolk/CompLabNGS
 - Slides
 - Resources
 - Exercises

- Moodle
 - HW Submissions
 - Announcements