

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

Lesson	Date
1	31.12.23
2	07.01.24
3	14.01.24
4	21.01.24
5	28.01.24
6	04.01.24
7	11.02.24
8	18.02.24
9	25.02.24
10	03.03.24
11	10.03.24

Final project:
01.05.24

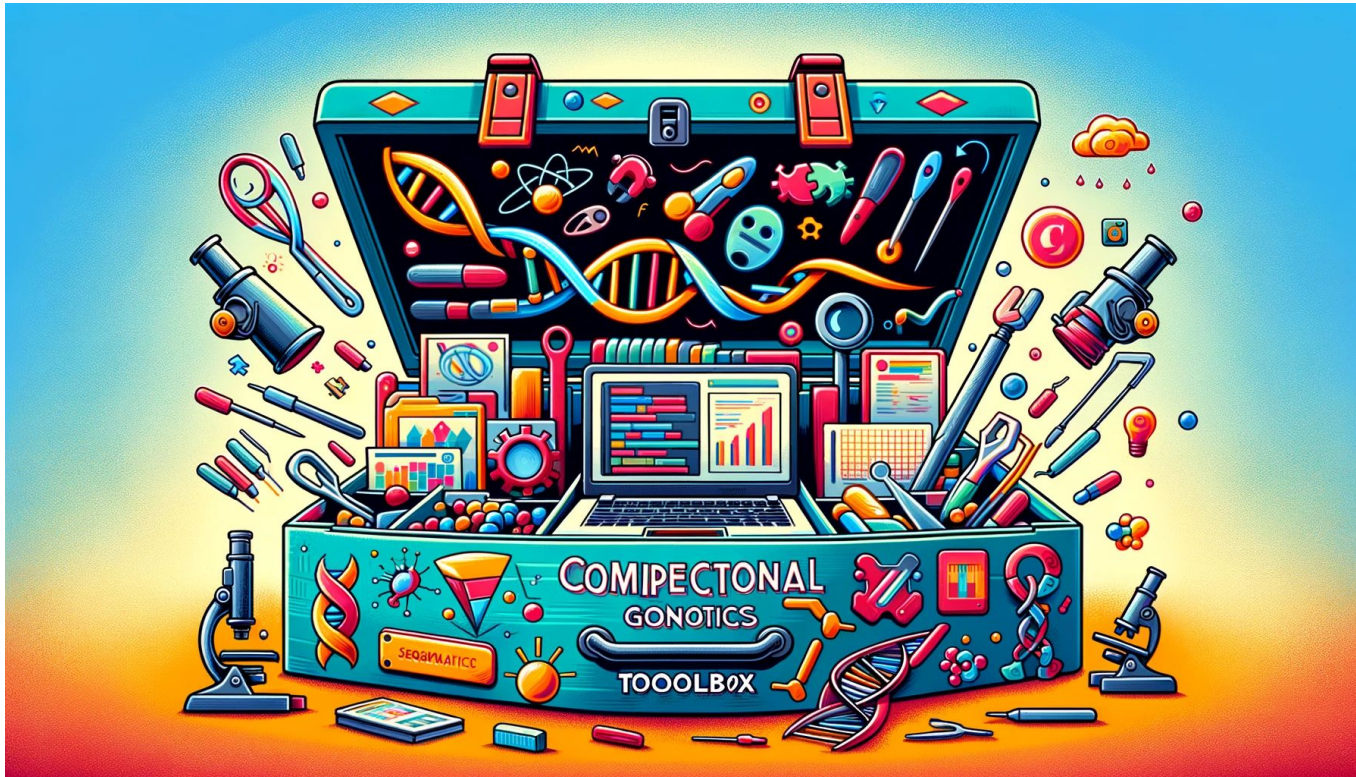
Course objectives

- Give students a broad introduction to NGS and genomic data analysis
- Provide actual tools for performing various tasks
- More practice and relevant theory

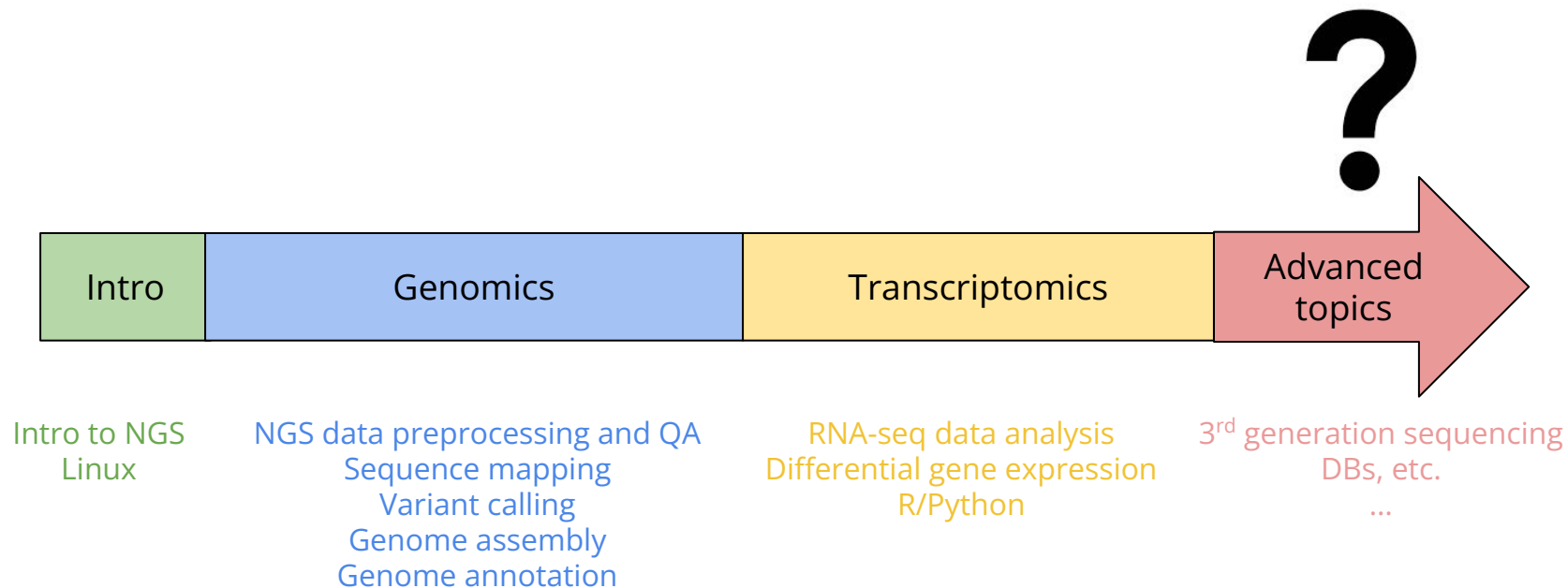
At the end of the course you will...

- **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 10 out of 11 exercises
- 70% final project
 - Can be done in pairs (or solo)
 - Submission deadline: 01.05.2024

Course resources

- GitHub
 - Slides
 - Resources
 - Exercises
- Moodle
 - HW Submissions
 - Announcements