Genome oriented bioinformatics: functional genomics and genetics

General information

Lecturers	Fabian Theis, Matthias Heinig, Annalisa Marsico, Gabi Kastenmüller, Paolo Casale
Time	Tuesday 2-6pm and Thursday 2-6pm
Slack	Join our slack channel for announcements: Link will be shared before the course
Place	Room 160, building 56 (to be confirmed) at the Helmholtz Center, Ingolstädter Landstr. 1, 85764 Neuherberg (in person sessions Tuesday every 2nd week) Online for the remaining sessions on Tuesday and Thursday: Link will be shared before the course
Programming	Assignments will be solved on own laptops **Please bring your own laptops with eduroam or other wifi connection!**
Schedule	https://docs.google.com/spreadsheets/d/1wYomHjWIFMs-PxcK1Nd3K16VqYGFXFKjOhVl8mFoi5I/edit?usp=drive_link
Lecture material	https://drive.google.com/drive/folders/1KYjeudAD5uX6I2Q3NCZJu7BQbviMuDf3?usp=drive_link

Format

The practical will cover 6 current topics in functional genomics and genetics. The course will start with an introduction in the first week. Starting in the second week and then every second Tuesday a new topic will be introduced by a group of students who prepare a 20 minute seminar talk. After the talk, the lecturer will introduce the practical programming assignment. Students will work in groups on the assignments for the remaining time of the two weeks until the start of the next block (Tuesday), when they hand in a written report with their solution to the assignment. The reports will be used for grading. We aim to have the Tuesday session in person and on Thursday students will be supported via live chat and video call opportunities. After the semester, students will participate in groups in a two week full time programming project, which will be offered by each of the lecturers. Students will have two weeks to hand in a project report, which will be used for grading. Finally, all students of all Gobi lab courses will join for a final symposium, where they present their project work. This final presentation will also be graded.