

Pre-test for Next Generation Sequence analysis course - 2021

This is a test to assess the level and pre-knowledge of the students entering the course.
It is for course-evaluation and adjustment purposes only.

Name _____

Your academic background If you were to describe your academic expertise, how would you rank the following fields? Please, use the numbers 1-3, where 1 is what you do best.

Biology ____

Computer ____

Statistics ____

At what academic level are you at present:

____ Bachelor student

____ Master student

____ Master project

____ Post graduate

____ PhD student

____ Post.doc

Other: _____

Test-questions

1. Briefly explain the Polymerase Chain Reaction (PCR). What is the use of it and how does it work?
2. What is the relationship between DNA, RNA and protein?
3. What is a DNA read?
4. How would you create a new directory using Unix commands?
5. How would you count the number of lines in a file using Unix commands?
6. What is your conception of what Next Generation Sequencing can be used for?
7. Which principle(s) is short read alignment based on?
8. What are your expectations for the course?