

# Metagenomics practical

Welcome in today's metagenomics practical. While doing the practical on your laptops, you have three assignments on paper to complete as well. The goal of these assignments is to improve your understanding of today's workflow by explicitly drawing relations between the steps. These assignments are not graded and play no role in grading the final exam.

## Assignments

### Assignment 1

First, before you start the workflow but after the lecture and reading the introduction, draw a flowchart of the workflow you will follow today. It does not have to be complete, but it has to represent what you got from the lecture and instruction. Draw this flowchart on side 1 of the sheet of paper handed out to you. Even though you will run the calculations in pairs, please each draw your own flowchart without discussing the contents with your fellow students. The flowcharts do not have to be the same or correct for that matter. This is only an exercise allow you to better understand the various steps and their relations to each other.

### Assignment 2

During today's practical, do two things: 1. When you finish a step that is included in your first flowchart, please place a checkmark next to it. 2. While you progress in the practical, draw a new flowchart reflecting your progress on side 2 of the form. Try to make it as complete as possible.

### Assignment 3

While making the second flowchart, reflect on what steps were not included in your first, and if they were necessary to understand the flow. What steps are absent in either one of the flowcharts, are these details, essential steps or just mistakes. Do you still understand all steps and why they matter? Be sure to discuss with each other and/or the instructors present today.

## Why I want to have your flowcharts

After the practical you must hand in your flowcharts, you of course are allowed to make a copy or a photo for future reference.

## Improve the practical

We require you to hand in your flowcharts after the practical to study them and improve the didactics of this practical. Your flowcharts are important to us to understand your thinking, and based upon your work we will improve the practical for future iterations. Please do fill in your name on the sheet, it may be valuable to relate your flowcharts to the results of the exams. The contents of the flowcharts will be absolutely of **no consequence to your final grade**, not in a positive nor in a negative way.

## Consent for publication

At some point, there is a possibility that I might use your flowcharts to publish this practical and the improvements thereupon in an educational journal. If you agree your flowcharts content can be an **anonymous** data point in such a manuscript, please sign the consent box at the bottom of the flowchart.

For more information, ask the instructors of the practical or find my personnel page for contact details: Laura W Dijkhuizen (<https://www.uu.nl/medewerkers/LWDijkhuizen>)