



Lecture: Microarrays Bioinformatics WS 2017/18

Assignment No. 7

(5 points)

Hand out: Thursday, December 14

Hand in due: Thursday, December 21, 10:00 Tutorial date: Tuesday, December 19, 10:15-11:45

Direct inquiries to: fabian.moertter@student.uni-tuebingen.de

Theoretical Assignments

1. Summary of the lecture

(5p)

Write a summary of the content of the lecture of the first 9 weeks (but do not give a chronological summary!). It is an extended "in a nutshell", thus your task is to identify the most important aspects, typical questions that can be addressed with a microarray experiment, and computational (bioinformatics) challenges when dealing with microarray data (up to normalization).

In addition to your text, create a figure which schematically visualizes the important steps involved in microarray data analysis up to normalization (do not forget to write a caption). We would like to see creative figures here, not 'adapted ones from the internet'. Actively refer to this figure in your text.

Length: altogether about 2 pages plus your figure.

Note again: The summary may be written in German or English.

Please read the questions carefully. If there are any questions, you may ask them during the tutorial session or via e-mail to your tutor. You will usually get an answer in time, but late e-mails (e.g. on Thursday morning before class) might not be answered in time. Please upload your solutions in the Ilias system. Please pack your source code, the plots, as well as the theoretical part into **one single archive file (zip)**. Source code should compile correctly.