

GBIO0002: Genetics and Bioinformatics

Style 1: Literature project

This involves processing and analyzing a paper from the literature that extends or provides additional background on the course materials. In particular, you are asked to summarize the objectives, methods and results of the paper, while further browsing the internet for additional information or supporting materials.

Do not copy the paper, but show you have understood the main ideas of the paper and “discuss” the paper. Such a discussion could include thoughts on what was the key idea, strengths or weaknesses of the methods/experiments, comments on the writing, ways to extend the work, flaws in the argument/data/experiments, etc. Anything is fine, as long as it demonstrates some real thought.

For review papers you can focus on one or a few subtopics to be worked out in greater depth, by following up on referenced work and/or searching for additional explanations on the internet.

A selection of papers will be provided, but if you have another interesting paper to discuss, please send your suggestion the PI to which the paper relates (Genetics: Prof Dequiedt; Bioinformatics: Prof Van Steen). The course instructors will then decide whether the paper is eligible or not.

All literature projects will be presented and discussed in class. No report is needed: instead send your well-organized slides to kristel.vansteen@uliege.be with the subject title “GBIO0002 slides”.

Presentations are organized per group. Each group member should present a comparable portion of the slides. This requires some internal organization in the group. The total presentation time foreseen for each group is 30min (questions from the audience and the course instructors included). Your preparatory group work should have involved keeping everyone in the team up to date; even though you may have split the work amongst each other. Hence, in principle, each team member should be able to give the presentation.

Style 2: Classic Q/A

Via representative questions, the idea is to further understand concepts provided in class. Occasionally, simulated or real-life data problems may be provided, that have been analyzed and for which the results require an interpretation. Use the material provided in class but be not afraid to consult the literature. As long as you can answer the given questions, everything is allowed. When you do use the literature, do not forget to provide the proper references.

Please follow instructions in class, regarding how to draft your group report.

Evaluation

Homeworks count for 60% of your final score. Hence it is worthwhile to spend time on them... Opportunities can be created to discuss the homeworks in class or in private.