

## Homework 2

### Genetics and bioinformatics

#### Important dates:

- Submit report and presentation files before 18 December 2017, 18:00h
- The presentation will be on 19 December 2017

#### **Marks:**

- Part 1 – 15 points
- Part 2 – 15 points

#### **Evaluation:**

- For report, your work will be evaluated based on the accuracy and completeness of answers and report structure.
- For presentation, you will be evaluated based on the completeness of slides, your presentation, your understanding, and your answers to questions.

#### **Instruction:**

- Form a group of 2-3 persons and complete the homework in both parts (1&2).
- For presentation, you have 15 minutes to present your work for each part and everybody in a group needs to present.

#### **Part 1:**

A: Select **ONE** of these papers to study and create a presentation. Your presentation should cover objective, method, result (if available), literatures (if needed), your own discussion, and your own conclusion.

- Zhu X, Gerstein M, Snyder M. Getting connected: analysis and principles of biological networks. *Genes Dev.* 2007 May 1;21(9):1010–24.
- Wolf JBW. Principles of transcriptome analysis and gene expression quantification: an RNA-seq tutorial. *Mol Ecol Resour.* 2013 Jul 1;13(4):559–72.
- Daakour, Sarah, Hajingabo, Leon Juvenal, Kerselidou, Despoina, Devresse, Aurelie, Kettmann, Richard, Simonis, Nicolas, Dequiedt, Franck, Twizere, Jean-Claude, Systematic interactome mapping of acute lymphoblastic leukemia cancer gene products reveals EXT-1 tumor suppressor as a Notch1 and FBWX7 common interactor. *BMC Cancer* 2016, 16(1): 335, doi10.1186/s12885-016-2374-2

**Part 2 : It will be uploaded on 12 December**

