**Bioinformatics Homework 2**

**Style 1: Literature Project**

Choose one of the papers below:

1. Day-Williams AG, Zeggini E **The effect of next-generation sequencing technology on complex trait research**. Eur J Clin Invest. 2011 May;41(5):561-7
2. Do R, **Exome sequencing and complex disease: practical aspects of rare variant association studies**. Hum Mol Genet. 2012 Oct 15;21(R1):R1-9
3. Hurd PJ, Nelson CJ. **Advantages of next-generation sequencing versus the microarray in epigenetic research**. Brief Funct Genomic Proteomic. 2009 May;8(3):174-83
4. Goldstein DB. **Sequencing studies in human genetics: design and interpretation.** Nat Rev Genet. 2013 Jul;14(7):460-70

These papers extend or provide additional background on the course notes covering “bioinformatics”, “molecular biology”, and “sequence analysis”.

Read the paper and summarize it. Clearly specify its objectives, summarize methods used or explained, and discuss its content, by looking into additional resources on the web.

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.

All literature projects will be presented and discussed in the class of Dec 10th 2013. Hence, make sure you prepare a 10-15 minutes presentation!

**Due date of report: 10th Dec 2013 (before midnight)**