**Assignment**

**Important**

* Submit your interim report (Part 1) by 21 November 2018 (this report will contribute to your final report)
* Please adhere to instructions given in class

PART 1

1. Download data from <http://firebrowse.org/> and choose PAAD (Pancreatic) and LUAD (lung). Describe the data
2. Convert from MAF to PLINK using one of the following step

I: Either you can convert maf to vcf and from vcf to PLINK .ped and. map file using tool available at https://github.com/mskcc/vcf2maf

II : Copy the SNPs information from MAF and create .ped.

III: Label PAAD data as 1 and LUAD as 0. Perform a genetic association analysis, comparing PAAD to LUAD, by using PLINK.

1. Compare the tools GenABEL and PLINK (from a software-related point of view)
2. Select “interesting” association signals in relation to pancreas and lung cancer and motivate your selection
3. Apply DEPICT on significant SNP associations (significant == the for multiple testing adjusted p-value is <0.05) and discuss