Design and analysis of genome-wide association studies, fall 2009

Lecturer
Adjunct prof. Samuli Ripatti
TA’s: Ida Surakka, Emmti Tikkanen

Scope
3 cu.

Type
Advanced studies.

Lectures and practical sessions
Wed 2., Thu 3., Fri 5. December, 9-16, computer class C128.
9-12 will be lectures and 13-16 will be practical sessions.

In this course we will cover the basics in design and analysis of genome-wide association studies including population-based study designs, genotype and phenotype quality control, population stratification, stochastic genotype imputation, association testing and estimation and meta-analysis. Lectures are complemented with hands-on computational sessions using statistical R-environment (http://cran.r-project.org/) and PLINK (http://pngu.mgh.harvard.edu/~purcell/plink/).

To pass the course, each student will write a project work by Jan 15th.

Registration
Did you forget to register? What to do.