Next generation sequencing analysis

PhD course, 3 ECTS, May 27-31, 2013, each day 9 am to 4 pm

Organized by

Location: Aarhus University, Fredrik Nielsens Vej 2, Build. 1422, 8000 Aarhus C
Teachers: Mikkel H. Schierup (mheide@cs.au.dk) and Stig U. Andersen (sua@mb.au.dk)
Sign up by email to teachers, deadline April 15, 2013

Aim:
Learning the basics of next generation sequencing analysis in practice

Topics:
De novo assembly
Reference based mapping
Transcriptomics
Epigenomics

Exercises:
Introduction to Galaxy, GATK, Samtools
Grooming of reads
Mapping of Illumina reads to reference
SNP/indel calling, filtering and annotation
Gene models and transcript quantification

Bring your own data! – or use our examples

No prior experience with next generation sequencing analysis needed