Advanced NGS course: RNA-seq data analysis

General information
Title: Advanced NGS course: RNA-seq data analysis (2nd edition)
Date: October 15-17th, 2012
Location: Amsterdam Medical Centre (AMC), Amsterdam
Website: www.nbic.nl/education/biowise; www.nbic.nl/?id=NGSRNAseq
Keywords: Next-generation sequencing, NGS, data analysis, RNA-seq, transcriptome
Organiser: NBIC
Coordinators: Peter-Bram ‘t Hoen (LUMC), Marcel Willemsen (AMC), Rutger Brouwer (EMC)
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Description
NBIC and partners LUMC, AMC and EMC are organising a 3-day course on RNA-seq data analysis from October 15 - 17th 2012. This is an expert course for people with experience in NGS and a follow-up course on the general NBIC NGS data analysis course (September 11-13th 2012 in Rotterdam.) The course will consist of seminars and hands-on Galaxy and R practicals and will focus on data pre-processing, quality control, and statistical methods for detection of differential gene expression.

Course topics:
- RNA-seq experimental approaches
- Alignment and de novo assembly
- Statistics for differential gene expression
- eQTL analysis and allele specific expression
- Software for RNA-seq data analysis

Target audience
Participants for the RNA-seq course should preferably have participated in the general NGS course or otherwise have demonstrated hands-on experience with NGS data analysis. The course is aimed at PhD students and post-docs, but scientific programmers and data analysts with a background in biology and bioinformatics may also attend.