

## **MEASUREMENT TECHNIQUES FOR BIOINFORMATICS ( JANUARY 2008)**

### **MODULE II - MICROARRAYS**

The course will give hands-on-training for gene expression analyses using high-resolution whole genome commercial microarrays. During the course, the students will get familiar with gene expression analysis using Affymetrix oligo microarrays and GCOS microarray analysis software. The students will work in pairs and will hybridize one sample per pair.

For questions, please contact Outi Monni ([outi.monni@helsinki.fi](mailto:outi.monni@helsinki.fi)).

#### **Time schedule**

##### **Day 1 (Wed 23.1.)**

14:00-15:00 Introduction to Affymetrix GeneChip arrays (Rm B401a)

15:00-16:00 Measurement of the quality of the total RNA samples by Bioanalyzer

##### **Day 2 (Thu 24.1.)**

12:00-17:00 Reverse transcription, purification, IVT, labelling (Rm A416b)

##### **Day 3 (Fri 25.1.)**

9:00-12:00 Purification, fragmentation (Rm A416b)

##### **Day 4 (Wed 30.1.)**

15:30-16:30 Hybridization (Rm A417b1)

##### **Day 5 (Thu 31.1.)**

8.30-12:00 Washing, scanning and assessment of data quality by GCOS software (Rm A417b1)