



Second Microarray and qPCR Course

Organised by WUR-AFSG

Bornsesteeg 59, 6708 PD, Wageningen, the Netherlands

REGISTRATION before November 15th

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Objective of the workshop/training course

Evoltree SEA is organizing a course on cDNA/oligo microarray analysis and Real Time PCR (qPCR) for students and researchers who like to learn more about these techniques and want to use it in their research. The three day course will contain both theory and 'hands-on' practice. The course will start at a low level, so also persons with little knowledge of molecular biology can join the course. After this course you will understand the important aspects of microarray analysis and will be able to develop and perform your own experiments, or support coworkers who are performing these analyses. The course is planned for a maximum of 15 students.

Date: 10, 11 and 12 December 2007, three whole days

Lecturers:

Lecture 1: DNA and RNA isolation, quantification and quality control
Lecture 2: Microarray systems and labelling methods
Lecture 3: Microarray systems, hybridization and experimental design
Lecture 4: Processing the slides, first steps in data management, normalization
Lecture 5: How to find differentially expressed genes (fold change, t-test, ANOVA) and visualisation techniques (clustering, PCA).
Lecture 6: Real Time PCR, an introduction
Lecture 7: Real Time PCR data processing and interpretation

Practical 1: RNA isolation
Practical 2: RNA labelling
Practical 3: Hybridization experiment

Practical 4: Washing, scanning and first processing steps of the microarray
Practical 5: Hands-on microarray data analysis, finding differentially expressed genes, fold changes, clustering data, SAM, PAM
Practical 6: Performing a Real Time PCR experiment

Location: Agrotechnology and Food Science Group, Wageningen UR,
Bornsesteeg 59, 6708 PD, Wageningen, The Netherlands

Credit for students: 2 points

Outline of the course:

As pointed out in the lecture scheme above, during the course all important steps of microarray analysis and Real Time PCR analysis will be discussed. It will be a combination of theory and practical training, starting at 9.00 in the morning until 18.00 in the afternoon. In the evening free time can be used for discussions, repeating lectures, preparing for the next day (handout of the lectures and protocols for practice will be distributed) and off course Evoltree research of each individual participant can be discussed.

Re-imbusement:

There will be no registration fee. The costs of travelling, accommodation and costs for lunch and dinners will partially be covered by the Evoltree – Network (depending on number of participants at a maximum of 15).

For practical reasons we will ask from each participant a cash payment at the start of the course for lunches and breaks. Further information about the amount will be available after the registration deadline.

Housing:

There are rooms available at the hotel 'WICC Wageningen', www.wicc-wir.nl. This Hotel is at 20 minutes walking distance of the AFSG building (or 10' by bus or taxi).

Other hotels that also can be used but slightly further away are De Wageningse Berg (www.hoteldewageningseberg.nl) or Hotel Reehorst (www.hotels.nl/nl/ede/reehorst/).

Everyone has to arrange the hotel accommodation by themselves.