



RIGHT Training course on RNAi High-Throughput Screening VTT Medical Biotechnology, Turku, Finland

Time and location

November 26-28, 2007

Pharmacy, Itäinen Pitkakatu 4 C, Turku, Finland

Contents

Lecture session, Pharmacy Lecture hall (open for all)

- Olli Kallioniemi, VTT Medical Biotechnology, Finland
- Eugenio Fava HT-Technology Development Studio, Max Planck Institute of Molecular Cell Biology and Genetics, Germany
- Bettina Hädrich, Qiagen, Germany
- Juha Rantala, VTT Medical Biotechnology, Finland
- Rami Mäkelä, VTT Medical Biotechnology, Finland
- Suvi-Katri Leivonen, VTT Medical Biotechnology, Finland

Demonstrations VTT Medical Biotechnology (open for max.15 people)

- Demonstration of siRNA HTS screen with ~2000 siRNAs
- Demonstration of cell arrays
- Demonstration of lysate arrays

Preliminary program

Day 1 (Monday)

8.30 - 9.00		Registration
9.00 - 9.50	Olli Kallioniemi	Welcome & 'Genome-scale cancer research & translation'
9.50 -10.40	Eugenio Fava	'High content screening and image analysis'
10.40 -11.30	Bettina Hädrich	
11.30 -11.45	Juha Rantala	Transfected cell arrays
11.45 -12.00	Rami Mäkelä	Lysate arrays
12.00 -12.15	Suvi-Katri Leivonen	miRNA functional screening
12.15 - 13.15		Lunch break

13.15 -14.00	Merja Perälä	Introduction to course practicalities & High-throughput RNAi screening of living cancer cells in 384 wells at VTT
14.00 -17.00	Niko Sahlberg Kirsi Hellström	Demonstration of siRNA HTS screening <ul style="list-style-type: none">• Part A: Printing demo• Part B: Transfections; lipid aliquoting & cell plating• Transfection optimization (lecture during incubation break)
19.00 -		Dinner

Day 2 (Tuesday)

9.00 -10.00	Merja Perälä	Introduction to day 2 and assay principles (proliferation, apoptosis, luciferase reporter assays etc)
10.00 -12.00	Niko Sahlberg	Demonstration of siRNA HTS screening <ul style="list-style-type: none">• Part C: proliferation readout
12.00-13.00		Lunch break
13.00 -13.45	Pekka Kohonen	Introduction to data-analysis and integration
13.45 -14.30	Kristine Kleivi	Research example: Breast cancer siRNA screening & analysis
14.30		Coffee
15.30 -18.00	Pekka Kohonen	Analysis of screening results

Summary of day 2

Day 3 (Wednesday)

9.00 -11.00	Juha Rantala Juha Rantala	Introduction to transfected cell arrays Demonstration of cell arrays <ul style="list-style-type: none">• Part A: Microscopy / scanning of living GFP cells• Part B: Scanning of stained cells
11.00 -12.00	Rami Mäkelä	Introduction and demo on lysate arrays

End of the course