MGC PhD Course

Technology Facilities

February 9, 2011, LUMC, Leiden

February 9: Genomics and Transcriptomics

Organizers:

Dr. W. van IJcken, ErasmusMC, Rotterdam
Prof. Dr. J. den Dunnen, LUMC, Leiden

The facilities

9:00 – 9:20	**Wilfred van IJcken** : Overview Biomics facility
9:20 – 9:40	**Sophie Greve** : Overview LGTC

Arrays & Real-Time PCR

9:40 – 10:10	**Edward Vissser:** Array based gene expression
10:10 – 10:40	**Annemieke Verkerk:** Use of SNP array analysis in craniosynostosis research.
10:40 – 11:10	**Rolf Vossen**: Nanoliter PCR and its applications

11.10 – 11.40 pauze

Next generation sequencing

11:40 – 12:10	**Yavuz Ariyurek**: Introduction / overview NGS.
12:10 – 12:30	**Henk Buermans**: miRNA sequencing

12:30 – 13:30 Lunch

Next generation sequencing

13:30 – 14:00	**Peter-Bram 't Hoen**: expression.
14:00 – 14:30	**Eric Soler**: ChIP-seq
14.30 – 14:50	**Eskeatnaf Mulugeta:** de novo

14.50 – 15.20 pauze

Next generation sequencing

15:20 – 15:50	**Kristiaan van der Gaag**: Roche 454
15:50 – 16:20	**Eveline Altena:** Helicos
16:20 – 16:50	**Wilfred van IJcken:** future developments NGS

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February 10, 2011, LUMC, Leiden

February 10: Proteomics

Organizers:
Dr. J. Demmers, ErasmusMC, Rotterdam
Dr. P. Hensbergen, LUMC, Leiden

9.30-10.30	**Dr. L. McDonnel**, LUMC, Introduction to mass spectrometry techniques
10.30-11.30	**Dr. P. Hensbergen**, LUMC, Introduction Proteomics
11.30-12.00	**Tour** Biomolecular Mass Spectrometry Unit LUMC
12.00-13.00	Lunch
13.00-13.45	**Dr. P Hensbergen**, LUMC, Mass spec analysis of post-translational modifications
13.45-14.30	**Dr. Y. Moshkin**, Erasmus MC, Analysis of protein complexes
14.30-15.00	coffee/tea
15.00-15.45	**Dr. J. Demmers**, Erasmus MC, Quantitative Proteomics
15.45.16.30	**Dr. M. Palmblad**, Bioinformatics
16.30-17.00	**General discussion**

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February 11, 2011, LUMC, Leiden

February 11: Imaging

Organizers:
Dr. A. B. Houtsmuller, Erasmus MC, Rotterdam
Prof. Dr. C. Lowik, LUMC, Leiden

Live cell imaging

9:00-9:35 **Gert van Cappellen (**Erasmus MC): Introduction to live cell fluorescence imaging
9:35-10:10 **Adriaan B. Houtsmuller** (Erasmus MC): Quantitative fluorescence methods to study protein dynamics in the cell nucleus
10:10-10:45 **Sylvia Le Devedec** (LACDR, LUMC): Systems Microscopy of cell migration

10:45-11:00 coffee/tea

11:00-11:35 **Bram Koster**: Correlative Cryo Light Electron microscopy
11:35-12:10 **Hans Tanke** (LUMC): Multiphoton intravital microscoscopy

12.10-13.00 Lunch

In vivo imaging – whole body optical imaging and MRI technology

13.00-13.45 **Clemens Lowik:** Introduction Molecular Imaging in vivo incl. PET/SPECT, CT, MRI, Ultrasound en optical imaging
13.45-14.30 **Clemens Lowik:** Whole body Bioluminescentie imaging and its applications

14.30-14.45 coffee/tea

14.45-15.30 **Eric Kaijzel:** Whole body Fluorescence imaging and its applications
15.30-16.15 **Louise van de Weerd**: MRI en ultra high field MRI
16.30-17.15 **Boudewijn Lelieveldt**: Image fusion of heterogenous multi-modal molecular imaging data