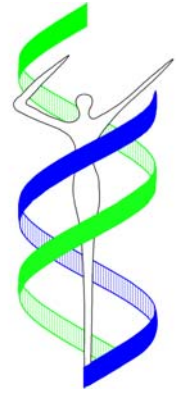


MGC PhD Course

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

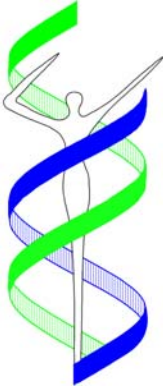
Kristiaan van der Gaag: Roche 454

15:50 – 16:20

Eveline Altena: Helicos

16:20 – 16:50

Wilfred van IJcken: future developments NGS



MGC PhD Course

Technology Facilities

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**



MGC PhD Course

Technology Facilities

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 microscopy

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