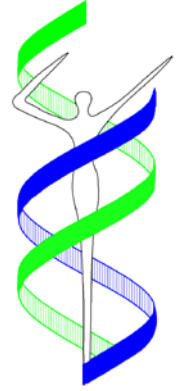


MGC PhD Course

Technology Facilities

Genomics and Transcriptomics

12 February, 2018, LUMC
Building 1, lecture hall 2



Organizers:

Dr. W. van IJcken, ErasmusMC, Rotterdam

Dr. S. Kloet, LUMC, Leiden

09:00 - 09:30 Arrival & Registration

09:30 - 09:50 **Mirjam van den Hout:** Introduction NGS Illumina

09:50 - 10:20 **Yahya Anvar:** PacBio Single molecule sequencing

10:20 - 10:40 coffee/tea break

10:40 - 11:10 **Yavuz Ariyurek:** 10X Genomics Chromium: single cell RNA-Seq and genome haplotyping

11:10 - 11:40 **Rutger Brouwer:** WaferGen iCell8: single cell RNA-Seq

11:40 - 12:10 **Rolf Vossen:** Bionanogenomics: Irys System

12:10 - 13:00 lunch

13:00 - 13:30 **Wilfred van IJcken:** Oxford nanopore

13:30 - 14:00 **Rutger Brouwer:** Expression profiling

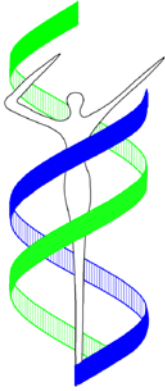
14:00 - 14:30 **Ruben Boers:** MED-seq, genomewide DNA methylation

14:30 - 14:50 coffee/tea break

14:50 - 15:20 **Kerstin Wendt:** ChIPseq, 3C in research

15:20 - 15:40 **Susan Kloet:** LGTC and associated LUMC facilities

15:40 - 16:10 **Wilfred van IJcken:** Biomics & Future developments NGS



MGC PhD Course

Technology Facilities

Proteomics

14 February, 2018, LUMC
Building 3, room V4-36/40



Organizers:

Dr. J. Demmers, ErasmusMC, Rotterdam

Dr. P. Hensbergen, LUMC, Leiden

9.30-10.30 **Dr. P. van Veelen, LUMC**, Introduction to mass spectrometry techniques

10.30-11.15 **Dr. P. Hensbergen, LUMC**, Introduction Proteomics

11.15-11.30 Break

11.30-12.15 **Dr. P Hensbergen, LUMC**, Mass spec analysis of post-translational modifications

12.15-13.00 Lunch

13.00-13.45 **LAB TOUR**

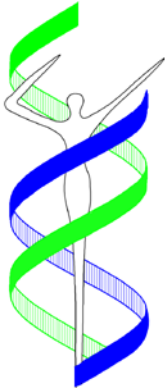
13.45-14.30 **Dr. J. Demmers, Erasmus MC**, Quantitative proteomics

14.30-15.00 coffee/tea

15.00-15.45 **K. Bezstarosti, Erasmus MC**, Protein and peptide separation techniques and sample preparation

15.45-16.15 **Dr. J. Demmers, Erasmus MC**, Data analysis and interpretation in proteomics

16.15-16.45 **General discussion**

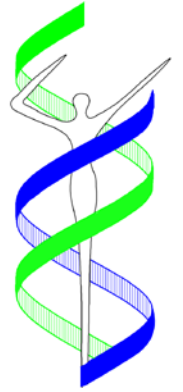


MGC PhD Course

Technology Facilities

Metabolomics

15 February, 2018, Gorlaeus Laboratories
Einsteinweg 55, 2333 CE Leiden



Organizer: Prof.dr. Thomas Hankemeier, Division of Systems Biomedicine and Pharmacology, LACDR, Leiden University

Location: Gorlaeus laboratorium New Building GM 4.13 (morning & lunch),
Gorlaeus laboratorium New Building EM 1.09 (afternoon),
9.00-9.30 Arrival and registration (note: location Gorlaeus Laboratories, follow the instructions enclosed)

Introduction into metabolomics

9.30-10.05 **Prof.dr. Thomas Hankemeier:** Introduction into metabolomics
10.05-10.45 **Dr. Isabelle Kohler:** Metabolomics workflow
10.45-11.10 Coffee/tea

New technologies and data analysis

11.10-11.45 **Dr. Isabelle Kohler:** Novel analytical approaches for metabolomics
11.45-12.15 **Dr. Isabelle Kohler and Dr. Nelus Schoeman:** Data analysis

12.15-13.15 Lunch

13.15-14.00 Lab Tour

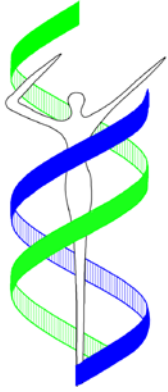
Applications of metabolomics

14.00-14.30 **Dr. Nelus Schoeman:** Persistent metabolic changes in HIV-infected patients during the first year of combination antiretroviral therapy
14.30-14.50 **Bas Gouloze (MSc):** Metabolomics to inform a better understanding of pain
14.50 -15.20 Coffee/tea
15.20-15.45 **Prof. Dr. Thomas Hankemeier:** Integration of metabolomics and genomics data
15.45-16.00 **Prof. Dr. Thomas Hankemeier/Dr. I. Kohler:** Conclusion and discussion



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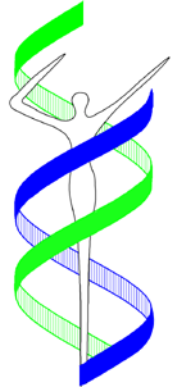


MGC PhD Course

Technology Facilities

Live Cell Imaging

16 February, 2018, LUMC
Building 3, room V2-18/22



Organizers:

Dr. G. van Cappellen and Dr. A.B. Houtsmuller, Erasmus MC, Rotterdam

9:00-9:50 **Gert van Cappellen** (Erasmus MC): Introduction to live cell fluorescence imaging and Quantitative fluorescence methods

9:50-10:45 **Gert-Jan Kremers** (Erasmus MC): Super resolution

10:45-11:00 coffee/tea

11:00-11:35 **Hans Tanke** (LUMC): Multiphoton intravital microscopy

11:35-12:10 **Roman Koning** (LUMC): Correlative Cryo Light Electron microscopy

12.10-13.00 Lunch

Afternoon free