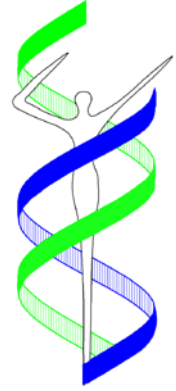


MGC PhD Course

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Leiden



February 21: Genomics and Transcriptomics

Organizers:

Dr. W. van IJcken, ErasmusMC, Rotterdam

Dr. H.P.J. Buermans, LUMC, Leiden

Location: V4 – 18/22, building 3 LUMC

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 **Stefan White:** 10X Genomics Chromium: single cell RNA-Seq and genome haplotyping

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

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

12:10 - 13:00 lunch

13:00 - 13:30 **Marjon van Slegtenhorst:** NGS in diagnostics

13:30 - 14:00 **Peter-Bram 't Hoen:** Expression profiling

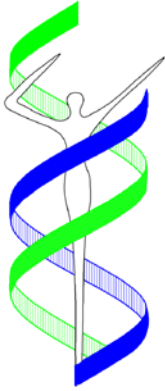
14:00 - 14:30 **Ruben Boers:** MED-seq, genomewide DNA methylation

14:30 - 14:50 coffee/tea break

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

15:20 - 15:40 **Henk Buermans:** LGTC and associated LUMC facilities

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



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February 22: Proteomics

Organizers:

Dr. J. Demmers, ErasmusMC, Rotterdam

Dr. P. Hensbergen, LUMC, Leiden

Location: V3 – 18/22, building 3 LUMC

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**



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February 23: Live cell imaging

Organizers:

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

Location: V4 – 52/56, building 3 LUMC

- 9:00-9:50 **Gert van Cappellen** (Erasmus MC): Introduction to live cell fluorescence imaging and Quantitative fluorescence methods
- 9:50-10:45 **Adriaan Houtsmuller** (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



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February 24: Metabolomics

Organizer:

**Prof.dr. Thomas Hankemeier, Division of Analytical BioSciences, LACDR,
Leiden University**

Location: Gorlaeus laboratorium New Building GM 4.13

9.00-9.30 Arrival and registration (note: location Gorlaeus Laboratories!!)

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

11.10-11.45 **Dr. Isabelle Kohler:** Novel analytical approaches for metabolomics

11.45-12.15 **Abidemi Junaid (MSc):** A human microvessel-on-a-chip platform to assess circulating factors associated with microvascular destabilization in patients with chronic kidney disease

12.15-13.15 Lunch

13.15-14.00 Lab Tour

Data analysis strategies

14.00-14.45 **Dr. Alberto Pasamontes:** Data analysis of metabolomics data

14.45-15.10 Coffee/tea

Applications of metabolomics

15.10-15.40 **Vasudev Kantae (MSc)** Endocannabinoid tone is higher in healthy lean South Asian versus white Caucasian men

15.40-16.00 **Prof.dr. Thomas Hankemeier:** Integration of metabolomics and genomics data



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