

Provisional Program NGS data analysis 2017, LUMC Leiden

Wednesday, August 30

09:00 Welcome coffee and sign-in: [location the Paleijhs](#).

1. The technologies, their output, and technology-related problems (lecture hall CZ3) chair: Johan den Dunnen (LUMC Leiden)

09:30 Introduction to Next-Generation Sequencing – **Johan den Dunnen** (LUMC Leiden)

10:00 Illumina – **Wilfred van Ijcken** (EMC Rotterdam)

10:30 Coffee break

11:00 10x Genomics – **Henk Buermans** (LUMC Leiden)

11:30 PacBio RSII – **Yahya Anvar** (LUMC Leiden)

12:00 Oxford Nanopore – **Wigard Kloosterman** (UMC Utrecht)

Lunch 12:30 – 13:30

2. General Data Analysis (lecture hall CZ3)

chair: Jeroen Laros (LUMC Leiden)

13:30 Alignment methods – **Wibowo Arindrato** (LUMC Leiden)

14:00 Variant calling using GATK – **Martin Elferink** (UMC Utrecht)

14:30 Combining tools into a pipeline – **Jeroen Laros** (LUMC Leiden)

15:00 Coffee break

15:30 De Novo assembly – **Erwin Datema** (KeyGene)

16:00 Data visualization – **Rutger Brouwer** (EMC Rotterdam)

16:30 End of Day 1

Thursday, August 31

3. Things to Know and Specific Applications I (lecture hall CZ3)

chair: **Judith Boer** (EMC Rotterdam)

09:00 Think before you start – **Judith Boer** (EMC Rotterdam)

09:30 QC issues – **Peter-Bram 't Hoen** (LUMC Leiden)

10:00 ChIP-Seq and DNA methylation – **Hendrik Marks** (RU Nijmegen)

10:45 Coffee break

11:15 Statistics for NGS – **Renee Menezes** (VUMC Amsterdam)

11:45 RNA expression profiling – **Peter-Bram 't Hoen** (LUMC Leiden)

Lunch 12:30 – 13:30

Computer Practicals: Rooms J1-83 and J1-82

- CLCbio – **Andre Koper** (CLCbio).

- NextGene – **Fons Elstrodt** (Bioke)

13:30 30 participants CLCbio (laptop room), 30 participants NextGene (PC room)

15:00 Coffee break

15:30 30 participants NextGene (PC room), 30 participants CLCbio (laptop room)

17:00 End of Day 2

Friday September 1

4. Specific applications II (lecture hall CZ3)

chair:

09:00 Metagenomics – **Ksenia Arkhipova** (Utrecht University)

09:30 Exome sequencing in a diagnostic setting – **Claudia Ruivenkamp** (LUMC Leiden).

10:00 Analysis of long molecule sequencing data - **Walter Pirovano** (BaseClear)

10:30 [Coffee break](#)

11:00 Structural variation analysis using NGS data – **Victor Guryev** (ERIBA/UMCG Groningen)

11:30 Non-invasive prenatal testing – **Frank Sleutels** (EMC Rotterdam)

[Lunch 12:00 – 13:00](#)

Computer Practicals: Room J1-82

13:00 – 14:30 Introduction to Galaxy – **Saskia Hilterman** (EMC Rotterdam) and **David van Zessen** (EMC Rotterdam)

14:30 [End of Day 3 – Please return evaluation forms and badges](#)