

Current Trends in Long Read Sequencing and Bioinformatics Analysis

3rd October 2024 Room HERGE, Campus Gasthuisberg, UZ Leuven

Introduction - Principles of Long Read Sequencing

8:30-9:00	Registration
9:00-9:10	Welcome - Joris Vermeesch, KU Leuven
9:10-9:50	Long read sequencing: technology and applications
	Wouter Bossuyt, Genomics Core Leuven
9:50-10:20	Introduction to long read data analysis
	Enora Ghelain and Alvaro Cortés, Genomics Core Leuven
10:20-10:50	Analysis long read data at the Flemish Super Computer
	Erika Souche, KU Leuven and Alexander Vapirev, VSC
	Structural Variation
11:00 - 11:40	Keynote - Towards the detection of all classes of structural variation
	David Porubsky, University of Washington
11:40-11:55	Structural variation I - Piet Maes, KU Leuven
11:55-12:10	S-Locus pear denovo assembly – Hanne Claessen, KU Leuven
	Biomedical applications
12.00 12.40	
13:00–13:40 14:00–14:15	Keynote - Lars Feuk, Uppsala University
	Tandem repeats - Dale Annear, Antwerp U.
14:15–14:30	Tandem repeat expansions in frontotemporal dementia- Wouter De
14.20 14.45	Coster, Antwerp U.
14:30–14:45	Episignature in patients with developmental disorders
	Benjamin Huremagic, KU Leuven
	Long Read Transcriptomes
15:00 - 15:40	Keynote - Long read transcriptomics - <i>Júlia Faura Llorens</i> , <i>Antwerp U</i> .
15:40 – 15:55	Mapping the transcriptional architecture of bacterial viruses
	with ONT-cappable-seq - Maarten Boon, KU Leuven
16:00 – 16:15	Capturing short RNA molecules with long RNA sequencing
	technologies - Eva Novoa, U. Pompeu Fabra
16:15 – 16:30	Your long read project. Questions and final words
_0.10	Genomics Core Team



