



## PROGRAM – 12<sup>th</sup> of May 2022

08.30 – 09.00 Coffee and Registration

### 09.00 – 10.30 Plenary Session

- 09.00-09.15 Welcome
- 09.15-09.40 Evolutions in molecular techniques - Karl Vandepoele (UZ Gent)
- 09.40-10.05 Evolutions in flow cytometry - Eleni Linskens (UZ Brussel)
- 10.05-10.30 Evolutions in digital microscopy – Winnok Devos (UAntwerpen)

### 10.30 – 11.00 Coffee Break

### 11.00 – 12.30 Parallel Sessions

#### *Parallel Sessions Molecular Biology*

- 11.00-11.25 Opportunities of optical genome mapping for genetic diagnosis in acute lymphoblastic leukemia - Barbara Dewaele (UZ Leuven)
- 11.30-11.55 Nanopore Sequencing (e.g. Covid) - Toon Janssen (UZ Brussel)
- 12.00-12.25 Comparison of digital droplet systems - Wim Trypsteen (UGent)

#### *Parallel Sessions Flow cytometry*

- 11.00-11.25 PID with flow – Jana Neirinck (UZ Gent)
- 11.30-11.55 Cross-matching in renal transplantations using flow cytometry- Steffi De Pelsmaecker (Red Cross Flanders)
- 12.00-12.25 IVDR in Flow – Pieter Vermeersch (UZ Leuven)

### 12.30 – 13.30 Lunch Break

### 13.30 – 14.45 Workshop Session 1 (see workshop overview)

### 14.45 – 15.15 Coffee Break

### 15.15 – 16.30 Workshop Session 2 (see workshop overview)

### 16.35 – 17.00 Plenary Session

- Large scale whole genome sequencing of metastatic cancers – Paul Roepman (Hartwig Medical Foundation, The Netherlands)

**18.00 – 23.00 Networking Event**

**PROGRAM – 13<sup>th</sup> of May 2022**

**09.00 – 09.25 Plenary Session**

CAR-T monitoring with PCR and Flow cytometry and impact on MRD measurement - Mattias Hofmans (UZ Gent)

**09.30 – 10.45 Workshop Session 3 (see workshop overview)**

**10.45 – 11.15 Coffee Break**

**11.15 – 12.30 Workshop Session 4 (see workshop overview)**

**12.30 – 13.30 Lunch Break**

**13.30 – 14.45 Plenary Session**

13.30-14.45 University colleges presenting research projects

14.50-15.15 MRD detection in multiple myeloma: NGS versus NGF - Wouter de Brouwer (UZ Brussel) & Nancy Boeckx (UZ Leuven)

**15.20– 16.45 Parallel Sessions**

***Parallel sessions Molecular Biology***

15.20-15.45 Single cell sequencing: applications from a diagnostic perspective - Celine Everaert (UGent)

15.50-16.15 Targeted RNA sequencing for the detection of SNVs, indels, splice variants and gene fusions in lung cancer - Sofie Claerhout (UZ Leuven)

16.20-16.45 ABL1 kinase mutation detection via NGS and ddPCR - Pascal Vannuffel (IPG Gosselies)

***Parallel Sessions Imaging***

15.20-15.45 Upgrading flow cytometry data with brightfield images using the Attune CytPix Flow – Cora Chadick (Amsterdam UMC)

15.50-16.15 Digitalisation of bone marrow morphology - Kathleen Deiteren (UZ Antwerpen)

16.20-16.45 Digitalisation of APO - Ivo Van den Berghe (AZ Sint Jan)

**16.50 – 17.20 Farewell reception and closing words**

## Overview Workshop Sessions

Level	Session 1 - Thursday 13.30 - 14.45		Presenter
<b>Flowcytometry</b>			
1.1	Basic	Set-up a protocol and standardization of a cytometer	Katrijn Ghekiere (Analis)
1.2	Advanced	Start-up with spectral cytometry	Carole Astruc (Cytek Biosciences)
1.3	Advanced	Flow cytometric MRD applications in hemato-oncology	Barbara Denys (UZGent)
<b>Molecular Biology</b>			
1.4	Basic	Massive Parallel Sequencing	Ben Caljon (VUB)
1.5	Advanced	Interpretation of clonality analyses (Ig & TCR) and IgH hypermutation analysis	Elke Boone (AZ Delta) & Sabine Franke (CHU Liège)
1.6	Advanced	Designing low-cost and highly multiplexed qPCR assays with limited sample input	Cécile Febry (Fluidigm)
Level	Session 2 - Thursday 15.15 - 16.30		Presenter
<b>Flowcytometry</b>			
2.1	Basic	Start validation of a novel flow cytometer	Malicorne Buysse (UZ Gent)
2.2	Basic	Blood and bone marrow differentiation by flowcytometry	Wim Renmans (UZ Brussel)
2.4	Advanced	Data mining and machine learning in flowcytometry	Sofie Van Gassen (Ugent)
<b>Molecular Biology</b>			
2.4	Basic	Bio-informatics for dummies	Paco Hulpiau (UGent) & Cedric Hermans (HOWEST)
2.5	Advanced	RNA sequencing for the detection of fusion transcripts	Joni Van Der Meulen (UZ Gent), Claude Van Campenhout (Hôpital Erasme) & Ken Maes (UZ Brussel)
2.6	Advanced	Chimerism evaluation by NGS	Helena Devos (AZ Sint-Jan)

<b>Level</b>	<b>Session 3 - Friday 9.30 - 10.45</b>		<b>Presenter</b>
<b>Flowcytometry</b>			
3.1	Advanced	DfN approach versus LAIP in MRD AML	Angèle Kelder, Sander Snel, Jacqueline Cloos & Lok Lam Ngai (CCA Amsterdam, VUmc)
3.2	Advanced	Multicolor panel design: tips & tricks	Gert Vanisterdael (UGent)
3.3	Basic	Spread and controls in flow cytometry	Alexander Bak Dinitzen (Miltenyi)
<b>Molecular Biology</b>			
3.4	Basic	Bioinformatics workshop on sequencing, introducing data formats, analysis and visualization	Paco Hulpiau (Ugent) & Marieke Mispelaere (HOWEST)
3.5	Advanced	Copy number variation by shallow sequencing in CLL and MM	Barbara Cauwelier (AZ Sint-Jan)
3.6	Advanced	Covid testing - from low to high throughput	Jasmine Coppens (UZ Antwerpen) & Laurent Gillet (ULiège)

<b>Level</b>	<b>Session 4 - Friday 11.15 - 12.30</b>		<b>Presenter</b>
<b>Flowcytometry</b>			
4.1	Basic	Quality assurance in flow cytometry: discussion of guidelines	André Gothot (CHU Liège)
4.2	Advanced	Digital microscopy of bone marrow and body fluids	TBA (West Medica)
4.4	Basic	Switching from 8 to 12 colors	Siska Blomme (AZ Sint Jan)
<b>Molecular Biology</b>			
4.4	Basic	Statistical methods in validation reports and QC	Jérémie Gras (IP Gosselies)
4.5	Advanced	Advanced Application using Droplet Digital PCR Technology	TBA (Biorad)
4.6	Advanced	NGS variant interpretation + tools (SeqOne, OncoKDM, perianDx, QCI) user experience with these software packages	Guy Froyen (Jessa Hospital) & Sara Vander Borgh (UZ Leuven)