

## CRIG's Single Cell mini-symposium

Dec 5, 2018 – UGent-VIB (FSVM building), Technologiepark 927, 9052 Ghent

<https://www.crig.ugent.be/en/events/crigs-single-cell-mini-symposium>

8:45 – 9:10 **registration and coffee**

9:10 – 10:50 **session 1**

- **9:10 Intro and overview of upcoming talks and technologies**  
**Prof. Geert Berx** (Molecular and Cellular Oncology Lab, UGent, CRIG)
- **9:25 Keynote presentation 1 'Contribution of genetic versus nongenetic intratumor heterogeneity in tumor evolution and therapy resistance'**  
**Prof. Jean-Christophe Marine** (Lab for Molecular Cancer Biology, VIB-KU Leuven Center for Cancer Biology)
- **10:00 Isolation of fetal cells and circulating tumor cells using VyCAP**  
**Dr. Arjan Tibbe** (VyCAP)  
**Drs. Ann-Sophie Vander Plaetsen** (Lab of Pharmaceutical Biotechnology, UGent)
- **10:25 Isolation of circulating tumor cells via DEPArray**  
**Prof. Katleen De Preter** (Center for Medical Genetics, UGent, CRIG)  
**Drs. Steffi Oeyen** (Center for Oncological Research, University of Antwerp)

10:50 – 11:20 **coffee break (+ poster viewing, exhibitors)**

11:20 – 12:45 **session 2**

- **11:20 Flow cytometry for single cell applications and downstream analyses**  
**Mr. Gert Van Isterdael** (Flow Cytometry Core, VIB-UGent)  
**Prof. Yvan Saeys** (VIB-UGent Data Mining and Modelling for Biomedicine Group, CRIG)
- **11:50 Storm session - short pitches of selected abstracts on single cell technology and applications**
- **12:30 Complementary technology pitches**
  - 'Protein analysis using MILO Single-Cell Western platform' – **prof. Frank Speleman** (Center for Medical Genetics, UGent, CRIG)
  - 'MS-based proteomics on low input samples for target identification' - **prof. Francis Impens** (Proteomics Core, VIB-UGent)
  - 'Biomolecular interactions on low input material using microscale thermophoresis' – **dr. Kenneth Verstraete** (VIB-UGent Center for Inflammation Research, Unit for Structural Biology)

12:45 – 13:55 **lunch, poster session and exhibitors**

13:55 – 15:35 **session 3**

- **13:55 Keynote presentation 2 'Gut stem cell turnover and recruitment in health and disease'**  
**Prof. Heiko Lickert** (Institute of Diabetes and Regeneration Research & Institute of Stem Cell Research, Helmholtz Zentrum München)
- **14:30 Single cell RNA sequencing platform at VIB**  
**Dr. Niels Vandamme** (UGent Molecular and Cellular Oncology lab, VIB-UGent Data Mining and Modelling for Biomedicine Group, CRIG)
- **14:55 Trajectory inference and modelling of scRNAseq data**  
**Drs. Wouter Saelens** (VIB-UGent Data Mining and Modelling for Biomedicine Group)
- **15:20 ScRNAseq reveals the in vivo differentiation potential and transcriptional dynamics of immature human thymocytes**  
**Drs. Marieke Lavaert** (UGent Department of Diagnostic Sciences)

15:35 – 16:05 **coffee break (+ poster viewing, exhibitors)**

16:05 – 17:10 **session 4**

- **16:05 Laser Capture microdissection for microscopy-guided cell isolation and downstream applications**  
**Prof. Ward De Spiegelaere** (Angiogenesis Lab, UGent Dept. Morphology, CRIG)
- **16:15 High content screening at single cell resolution**  
**Dr. Dominique Audenaert** (c-BIOS, Screening Core, VIB-UGent)
- **16:35 Phenotypic assays on cancer cell populations using IncuCyte**  
**Drs. Liselot Mus** (Center for Medical Genetics, UGent, CRIG)  
**Prof. Olivier De Wever** (Lab of Experimental Cancer Research, UGent, CRIG)
- **16:55 Data-analysis pipelines to resolve imaging data at single cell resolution**  
**Dr. Daniel Peralta** (VIB-UGent Data Mining and Modelling for Biomedicine Group)

17:10 – 17:30 **panel session and Q&A with experts**

'Opportunities and limitations of different single cell technologies & future perspectives'

17:30 **reception**

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