

Date 3rd – 4th October 2023
Location *Onderwijs en Navorsing, Herestraat 49 - 3000 Leuven, Belgium*
Title **Training School: Brainstorming on analysis of multiplexed images**

Tuesday 3rd October - Day 1: Internal and external member presentations

Venue: *Building: Ghb - Onderwijs en Navorsing 2, Room: SEMINARIELOKAAL HP 2 04.227*

9h45-10h Reception of participants

10h-10h30 “Options and challenges in multiplexed imaging”
Karine Serre – IMM|JLA – Lisbon

10h30-11h. “Next-generation pathology using multiplexed immunohistochemistry: mapping tissue architecture at single-cell resolution”
Frederik De Smet – KU Leuven, Belgium

11h-11h30 *Coffee Break*

11h30-12h “Application of multiplexed immunohistochemistry technology for patient stratification”
Stefan Naulaerts – KU Leuven, Belgium

12h-14h *Lunch*

14h-14h30 “Troubleshooting session: In-house barcoding antibody and optimization of image acquisition”
Xi Wang – UK Essen, Germany (Sven Brandau)

14h30-15h “Troubleshooting session: Cell segmentation strategies + representation of data obtained from multiplexed images”
Clemence Cornuot & Kevin Mulder – Paris, France (Florent Ginhoux)

15h-15h30 “Different options for multiplexed image analysis – comparison of platforms: Enable Medicine, Qu-Path and others”
Maria Valdoleiros – IMM|JLA – Lisbon (Karine Serre)

15h30-16h *Coffee break*

16h-16h30 “Deciphering CD5L expression in tissue macrophages: moving forward from conventional immunofluorescence to multiplex imaging for enhanced insights and accuracy”
Tony Paul – Badalona, Spain (Maria Rosa Sarrias)

END of the first day of TS – DINNER



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Wednesday 4th October - Day 2: Identify common challenges and possible solutions

Venue: *Building: Ghb - Onderwijs en Navorsing 2, Room: SEMINARIELOKAAL HP 2 04.227*

10h-10h30 *Coffee break*

10h30-13h00

CLOSED DOOR SESSION FOR SPECIFICALLY INVITED Mye-InfoBank MEMBERS ONLY (hybrid):

13h-14h30 *Lunch*

14h30-15h “Multiplexed proteomic profiling of the brain immune compartment”
Kiavash Movahedi, Laboratory for Molecular and Cellular Therapy, Vrije Universiteit Brussel

15h-15h30 “Methods and applications for spatial transcriptomics”
Thierry Voet or Dr. Katy Vandereyken – KU Leuven

15h30-16h *Coffee Break*

16h-16h30 “A preliminary exploration of epithelial heterogeneity in the tumor microenvironment of colorectal cancer”
Zedong Hu – Leuven, Belgium (Sabine Tejpar)

16h30-17h “Investigating neuro-immune interactions in the tumor immune microenvironment”
Ahmad Alkhan – Limerick, Ireland (Aedin Culhane)

17h-18h Conclusions

END of the TS