

Continuous Flow Interchange of Communication and Knowledge in Biomedical University Research – FLOW

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Oslo University Hospital Rikshospitalet Grønt Auditorium



Workshop: Applications of flow cytometry in biomedical research

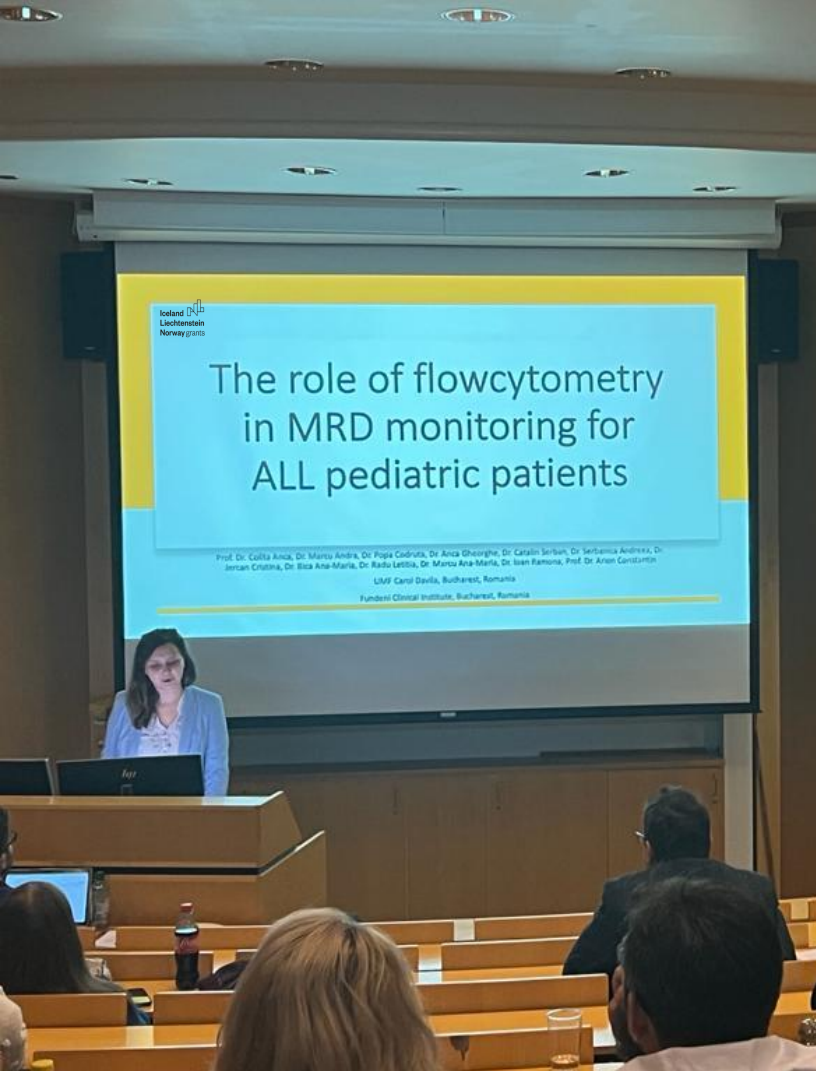


- Rasmus Iversen, PhD
- Researcher at the Department of Immunology



Christopher Forcados
Oslo University hospital

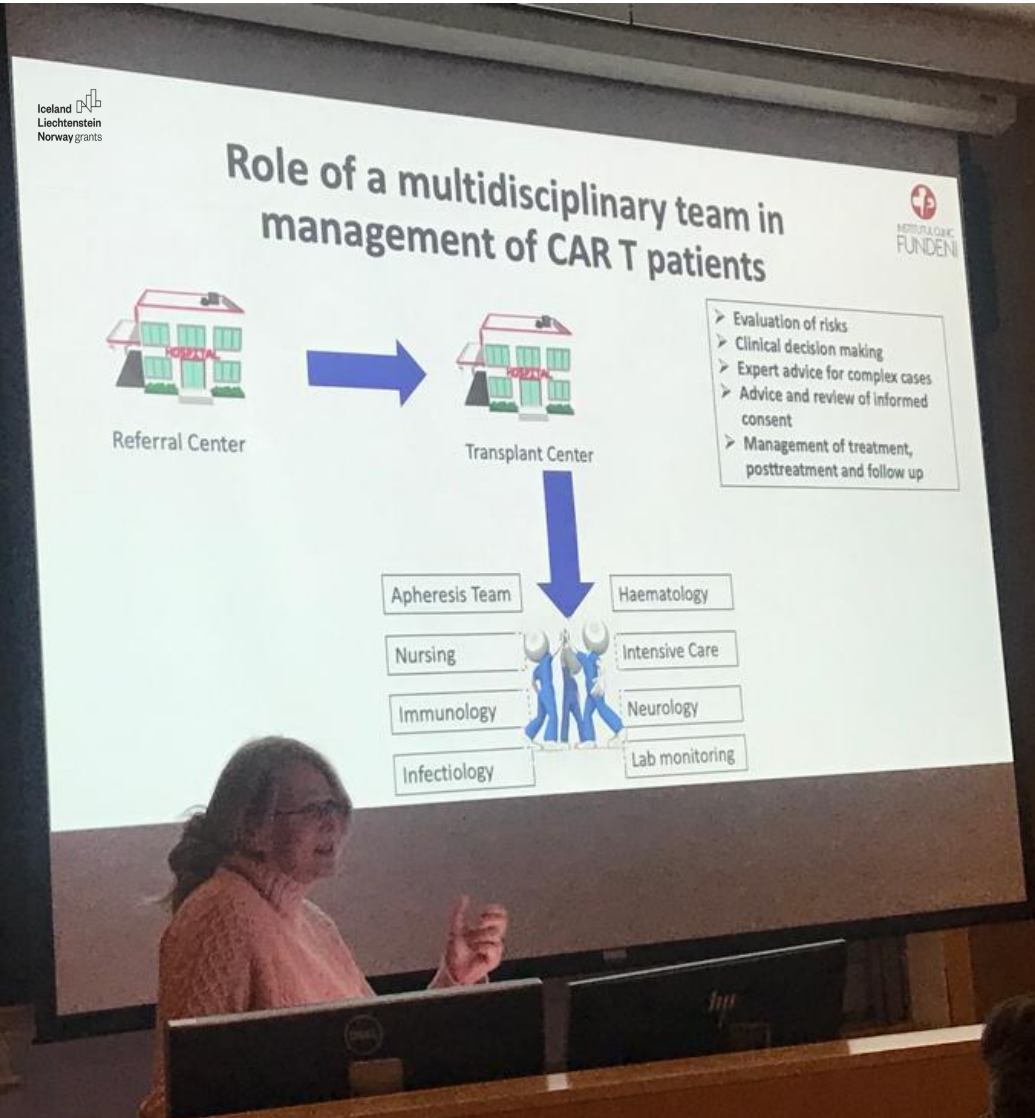




Asistent Dr. Andra Marcu
Institutul Clinic Fundeni



Prof. Dr. Alina Tănase
Institutul Clinic Fundeni



Causes of Failure of CART19 Immunotherapy

Pre-infusion barriers: Low lymphocyte counts, Manufacturing failure, Progression during manufacturing, High Costs.

CART dysfunction: Exhausted T cells, Terminally differentiated T cells, Short lived activity.

Immunosuppressive tumor microenvironment/ Host Factors: Physical barrier, TGF- β , IL-10, Treg, TAM, MDSC.

Tumor-intrinsic mechanisms: Antigen loss, PD-L1 over-expression, Apoptosis.

Legend: Antigen, CAR, CTLA-4, LAG-3, New Antigen, PD-1, PD-L1, TIM-3.

Ghildardi G, BJH, 2021



Coffee break and discussions

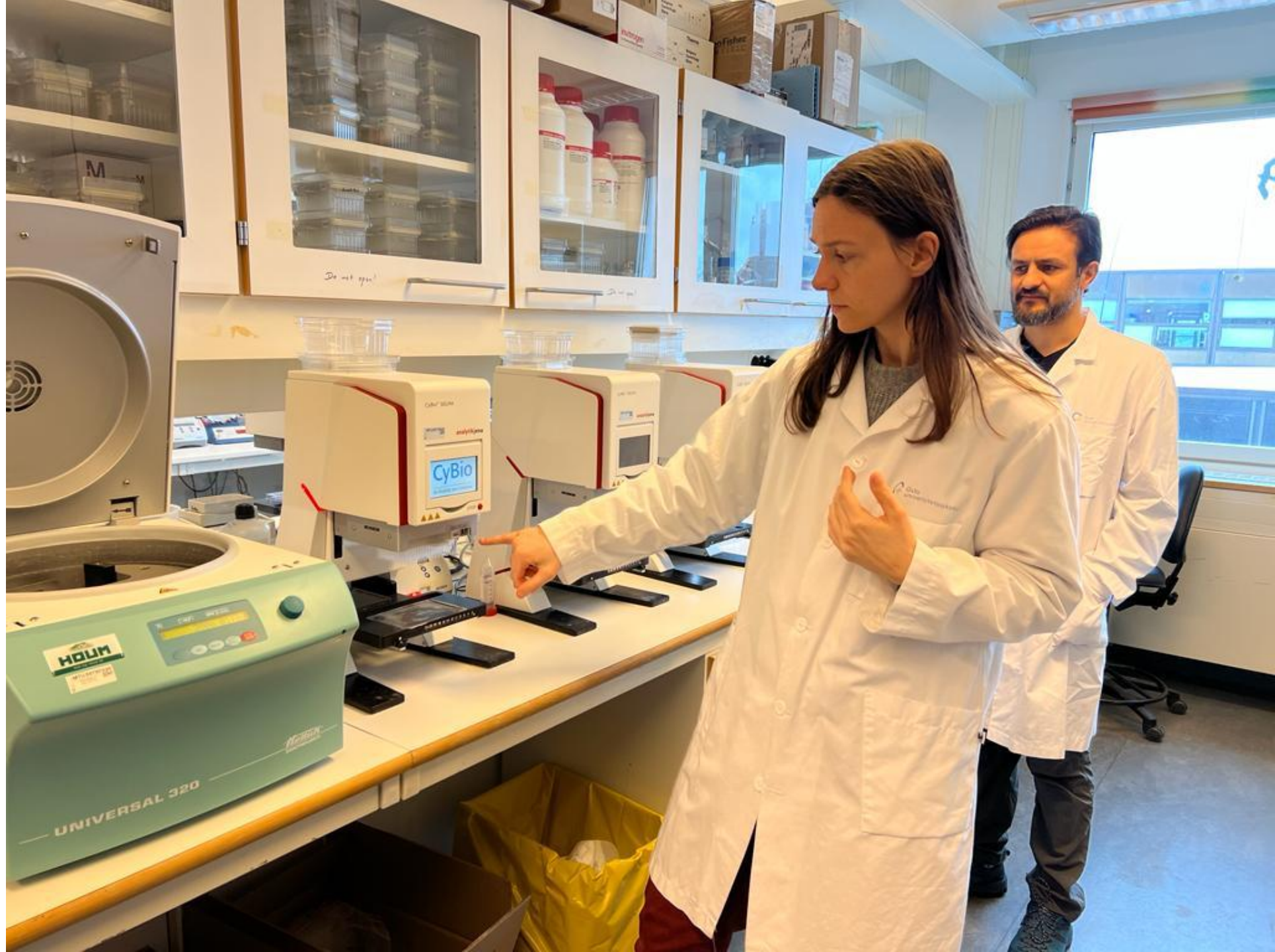






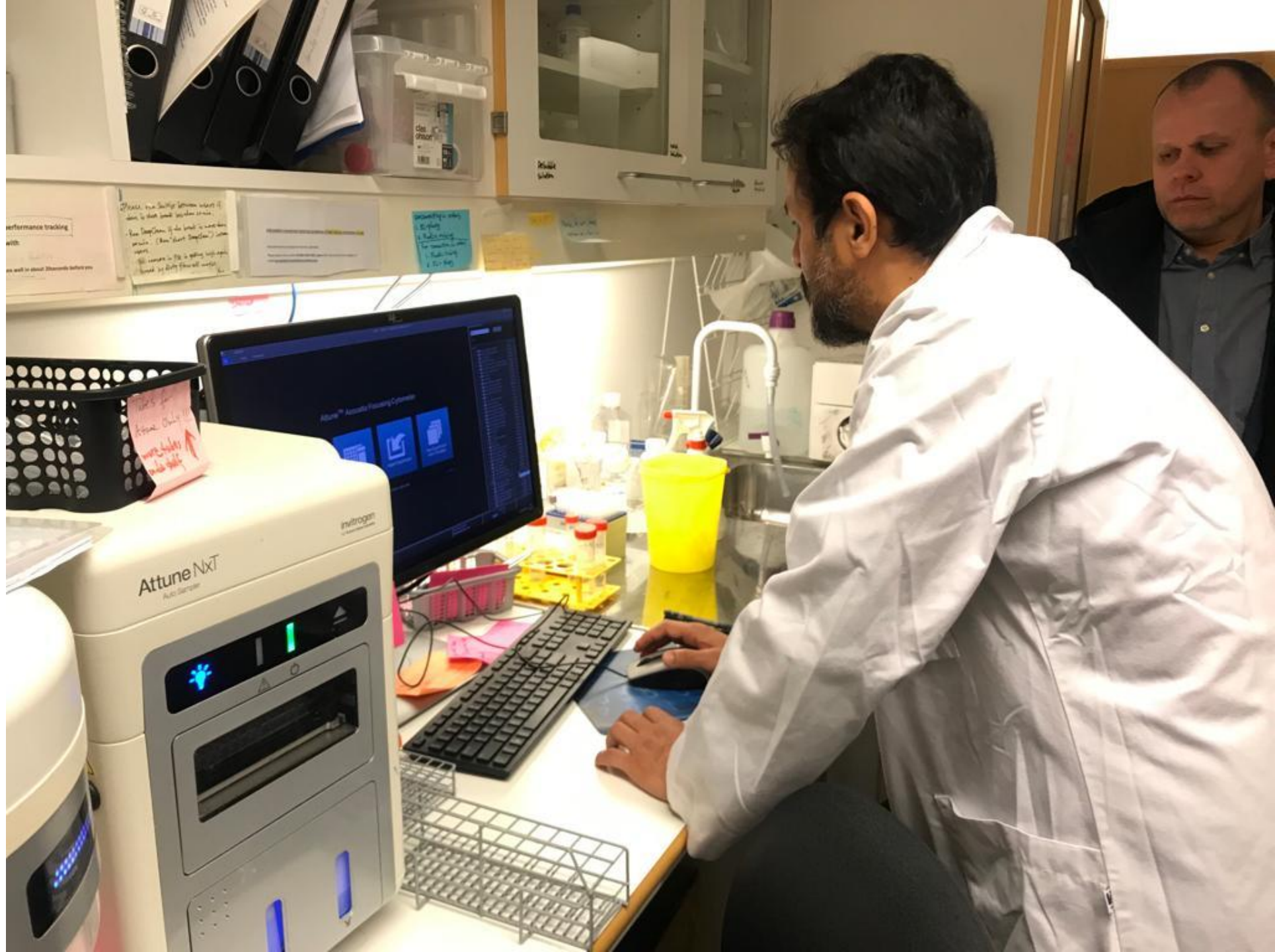
Robots for automatic sampling
Brynjulfsen Lisa Rebeca
Vestgøte
Dr. Brij Bhushan Mehta

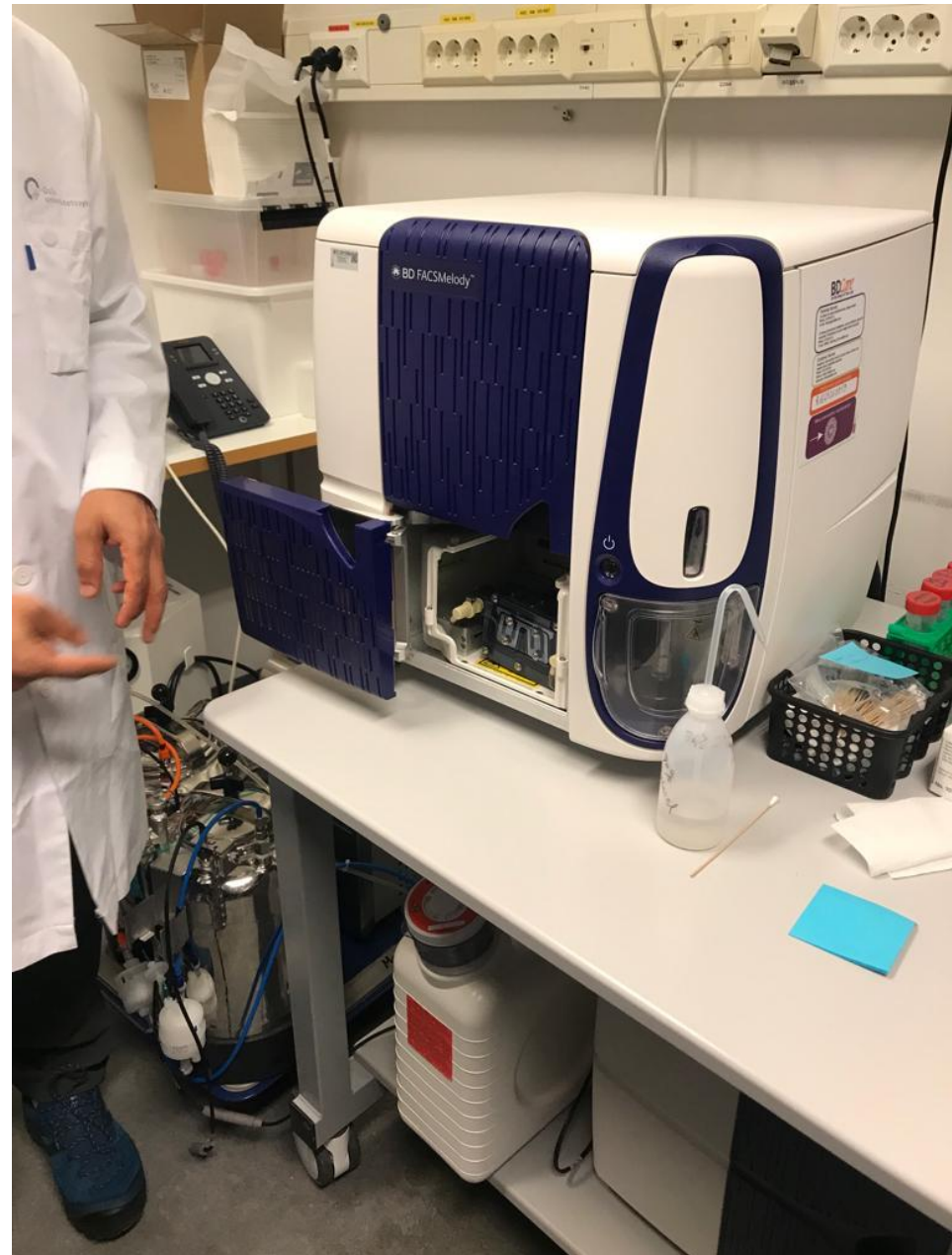
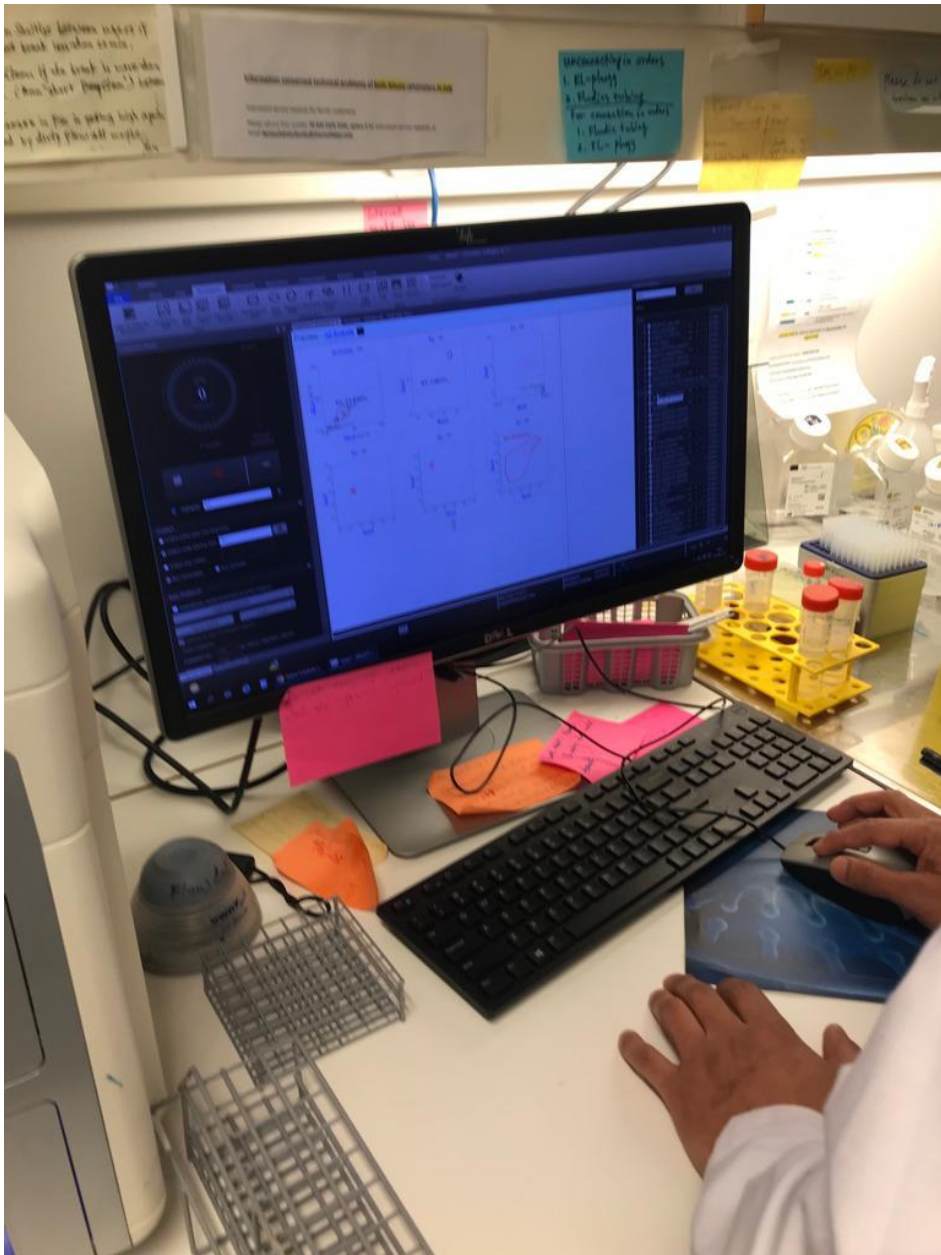




Dr. Brij Bhushan Mehta
Flow cytometry Facility

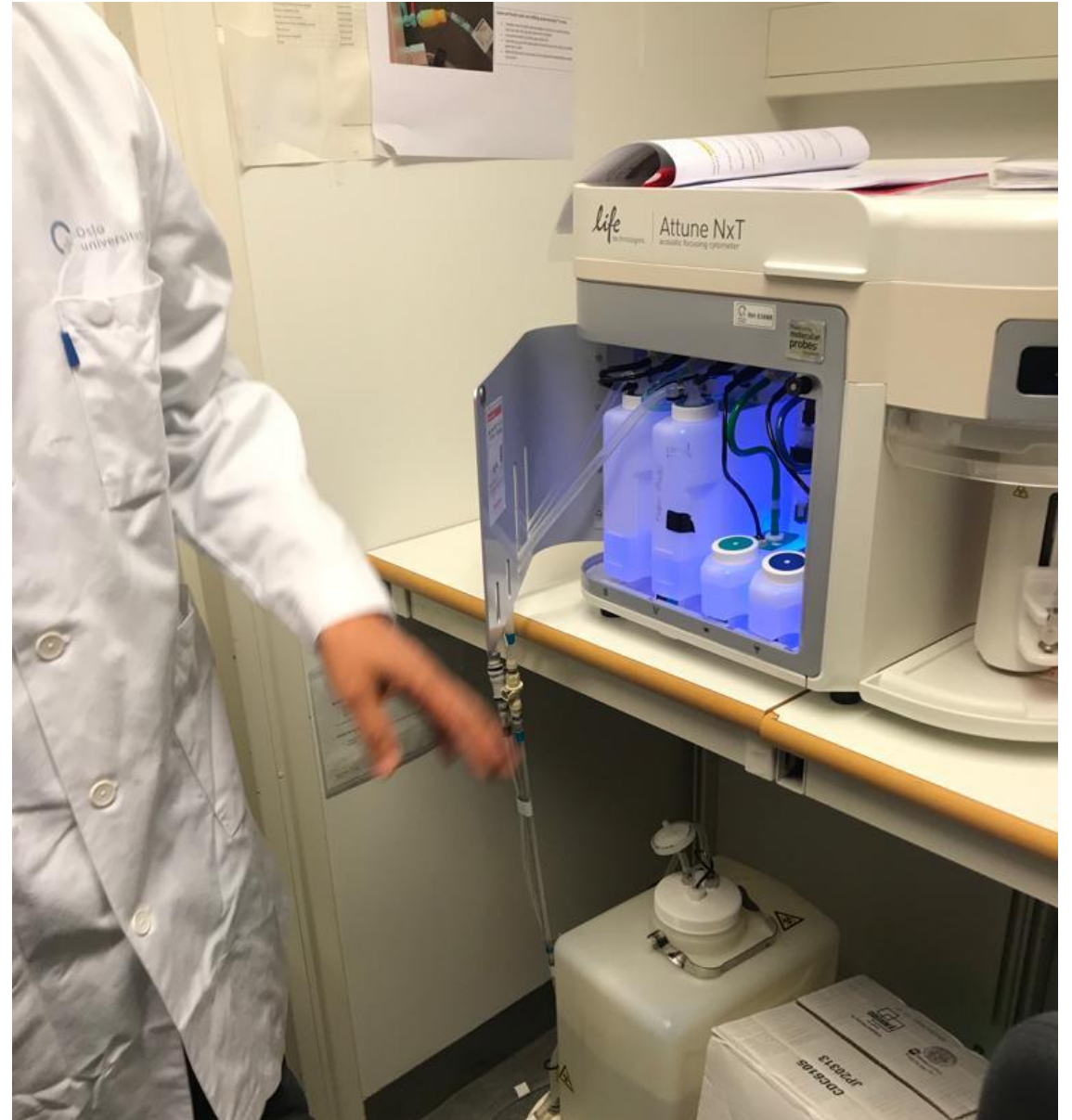


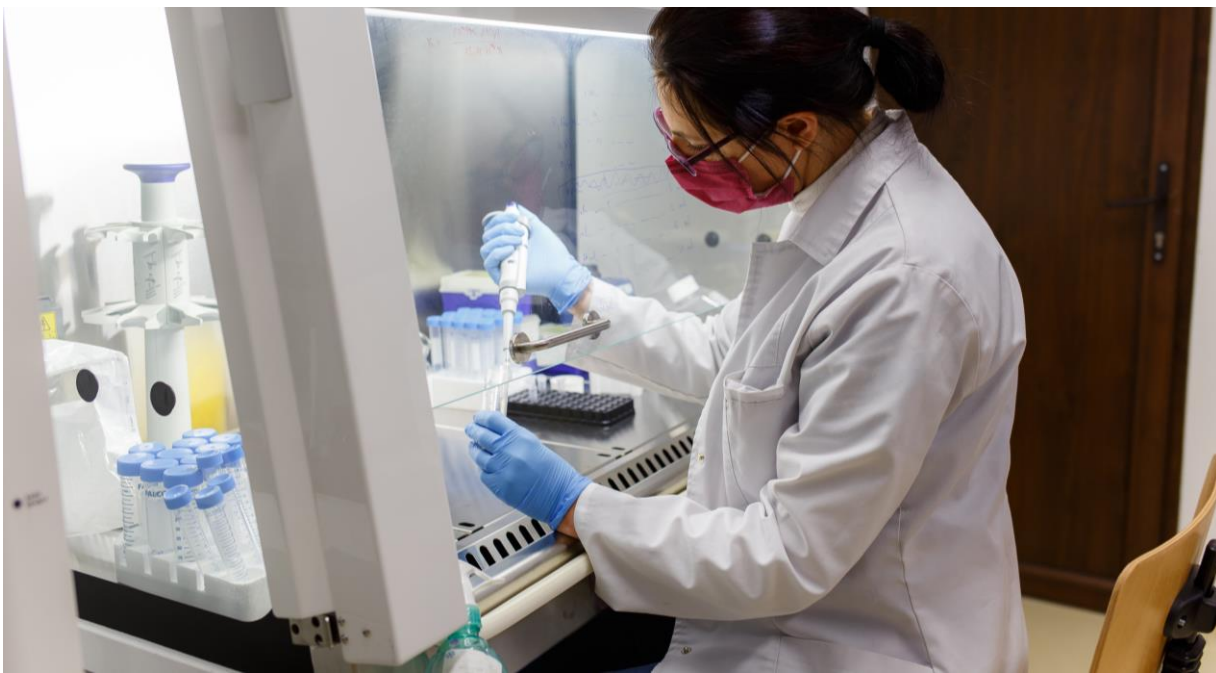




FC Data interpretation, establishing common research protocols

Flow Cytometer Preparation and Calibration

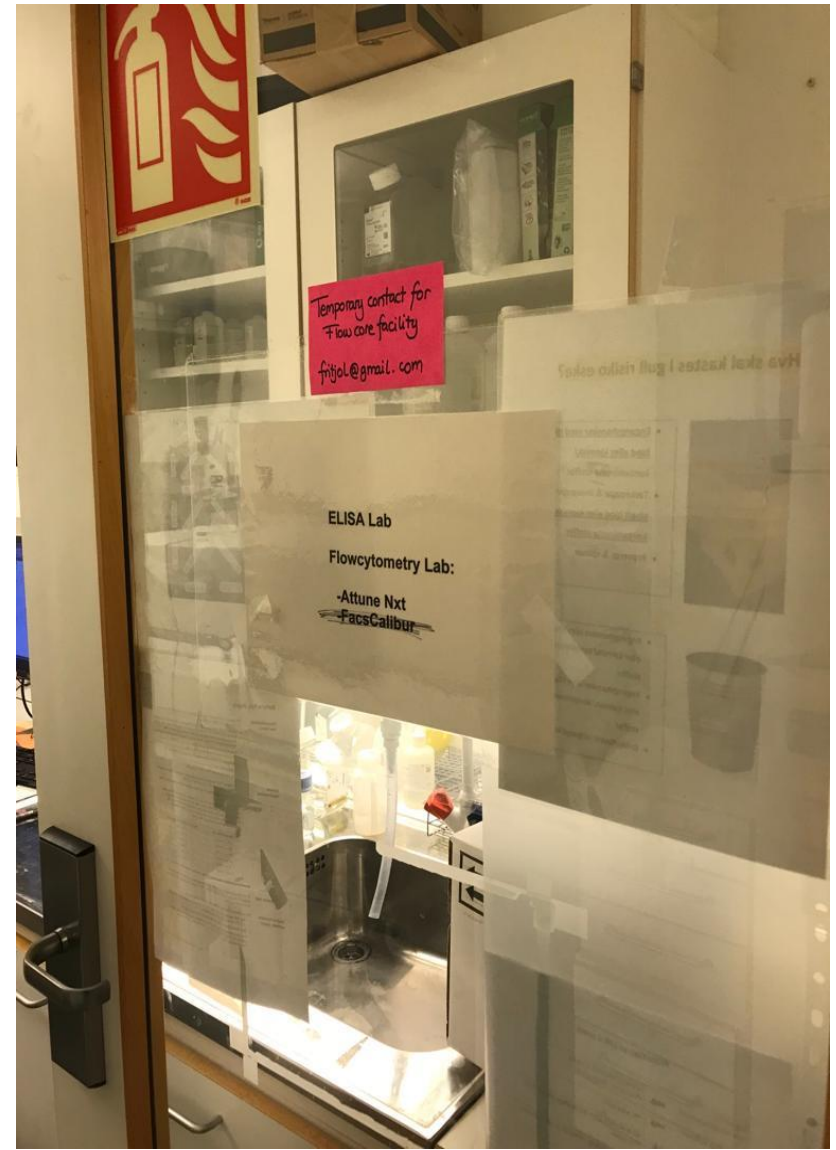




Establishment of common protocols, exchange of good practice models in flow cytometry research



Caracterization of Nanoparticles by Flow Cytometry



**Agenda of the short-term joint staff training event at University of Oslo
March 29th – April 2rd, 2023**

Date	Time	Agenda Activity	Location
Wednesday, March 29 th , 2023	-	Travel and arrival of the participants	-
Thursday, March 30 th , 2023	13.00-17.00	Workshop: Applications of flow cytometry in biomedical research	Grønt Auditorium, Oslo University Hospital Rikshospitalet
Friday, March 31 st , 2023	9.00-13.00	Establishment of common protocols, exchange of good practice models in flow cytometry research; discussion on joint scientific articles to be published	Laboratory for Computational and Systems Immunology, University of Oslo, Meeting room
	13.00-14.00	Lunch break	-
	14.00-18.00	Working on the new modern curriculum for medical research based on common needs and knowledge, discussing protocols for flow cytometry to be uploaded on the new e-platform	Laboratory for Computational and Systems Immunology, University of Oslo, Meeting room
Saturday, April 1 st , 2023	9.00-13.00	Flow cytometry in biomedical research: comparison of protocols used by Romanian and Norwegian partners with professional input from the experts from University of Oslo	Laboratory for Computational and Systems Immunology, University of Oslo, Meeting room
	13.00-14.00	Lunch break	-
	14.00-18.00	Flow cytometry data analysis software: practical training on the use of modern software to improve raw data analysis and yield more relevant results	Laboratory for Computational and Systems Immunology, University of Oslo, Meeting room