

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

C2.1. Short terms mobility of 20 students/PhD students to UI partner

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Scientific Coordinator: Dr. G. G. G. G.

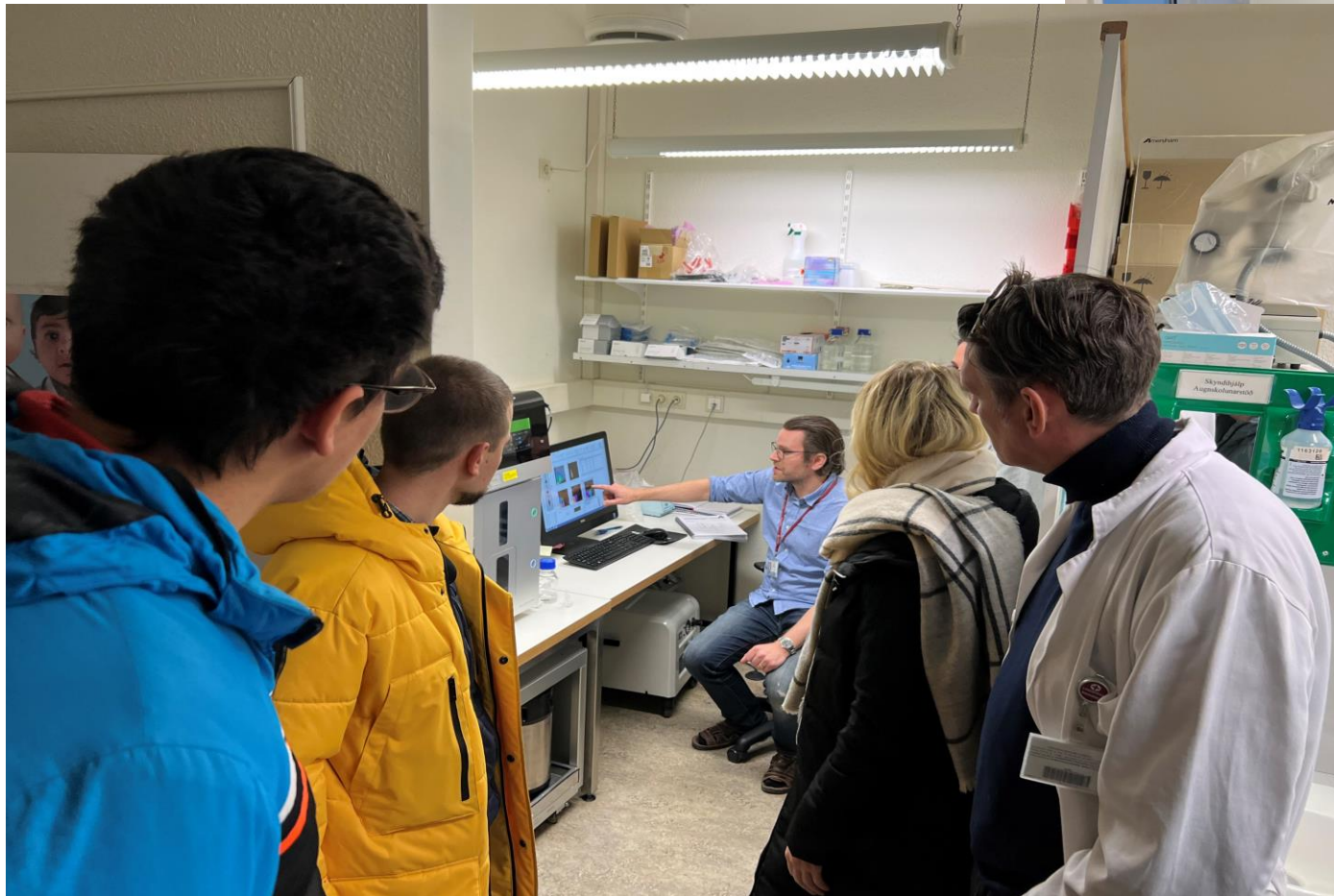
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Landspítali – University Hospital Reykjavik, Biomedical Center,
Department of Hematology Laboratory
Monday, November 28th, 2022



Practical training session: cytometer start-up / shutdown, calibration, choice of appropriate study design and fluorochromes, compensation of fluorochromes.

Dr. Siggeir Fannar Brynjólfsson



Dr. Jon Thor Bergthorsson

Practical training session: applications of flow cytometry in biomedical research: analysis of blood and bone marrow samples

Landspítali – University Hospital Reykjavik, Biomedical Center

Tuesday, November 29th, 2022

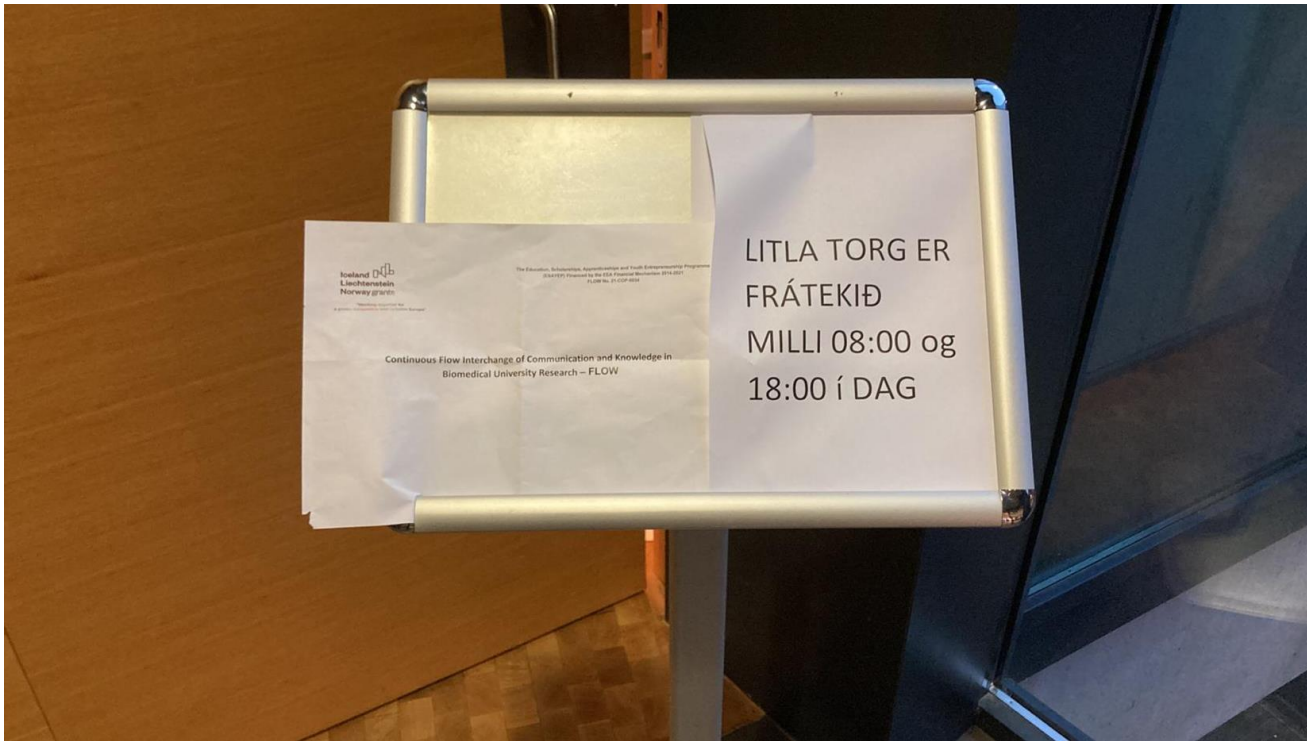


Practical training session: applications of flow cytometry in biomedical research: analysis of cell culture samples



Practical training session:

applications of flow cytometry in biomedical research:
processing and analysis of compact tissue samples



Workshop: Applications of flow cytometry in biomedical research

Wednesday, November 30th, 2022



No	Name speaker	Presentation	Project	Hour
1	Jon Thor Bergthorsson	Flow Cytometry 10 color panels for hematology	FLOW	8.00 - 9.00
2	Katrin Birna Pétursdóttir	Flow Cytometry for hematology	FLOW	9.00 - 9.30
		Coffee Break		9.30 – 10.00
3	Bumbea Horia	Clinical applications of Flow Cytomet	FLOW	10.00 – 11.00
4	Cenariu Mihai	Evaluation of sperm quality by flow cytometry	FLOW	11.00 - 11.30
5	Stiufiuc Rares	Plasmonic nanoparticles with applications in medicine	FLOW	11.30 - 12.30
		Lunch Break		12.30 – 13.00
	ERASMUS OFFICE	Informal meeting and discussions at the Erasmus office, conclusions, paperwork	FLOW	13.00 - 15.00

Dr. Jon Thor Bergthorsson



Flow cytometry

- Traditional flow cytometry was invented in the sixties (Coulter, Göhde)
- A powerful technique for mapping surface and intracellular protein expression via fluoro-chrome labelled antibodies
- Other cell properties, DNA dyes, fluoroprobes, Fluorescent proteins
- Hydrodynamic system with lasers for excitation, filters and PMT detection of specific emission wavelengths.
- Single cell resolution!!
- Enormous improvements in recent years with respect to development of new fluoro-chromes and instruments equipped with more lasers and increased range of detectors





Dr. Katrin Birna Pétursdóttir

Flow Cytometry for hematology
Protocols and Technical aspects



Dr. Mihai Cenariu – USAMV Cluj-Napoca
Evaluation of sperm quality by flow cytometry



Dr. Horia Bumbea – President of the Romanian Flow Cytometry Association
Clinical applications of Flow Cytometry



Dr. Rareş Ştiufiuc

Plasmonic nanoparticles with applications in medicine







Nr.	Numele și prenumele	Student/doctorand UMF CLUJ
1	Bancoș Anamaria	Doctorand
2	Iluța Sabina Ioana Doinita	Doctorand
3	Borșa Mario	Student
4	David Luca	Student
5	Cozma Maria	Student
6	Pintilie Sebastian Romeo	Student
7	Găvănescu Ștefania-Teodora	Student
8	Iova Olga	Student
9	Botezatu Alina	Student
10	Pethő Robert-István	Student

Nr.	Numele și prenumele	Student/doctorand USAMV CLUJ
1	Negoescu Andrada-Gabriela	Doctorand
2	Boldianu Adrian-Bogdan	Doctorand
3	Pop (Ionica) Romelia	Student
4	Constantin Irina	Student
5	Teleki Bernadette Eموke	Student
6	Ungureanu (Trif) Emilia	Student
7	Murariu Raluca	Student
8	Matei Miruna-Maria	Student
9	Mitre Ioana-Bianca	Student
10	Boer Blanka	Student