
BioMechCanDet



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Project meeting and brainstorming activities, 03.04.2022 – 07.04.2022

NTNU, Dept of Physics, Trondheim Norway,

Participants:

IFJ PAN: Malgorzata Lekka, Joanna Zemla, Renata Szydlak, Marcin Luty

Bjørn Torger Stokke, Ingrid Haga Øvreeide, Lucie Poupardin, MSc student, (Univ Paris),
affiliated with the project topics; IFY, NTNU

Victorien E Prot, IKT, NTNU

Final program

Monday 4 April 2022

- 11:45 we will come directly to meeting place
- 12:00 Lunch
Cantine Physical Sciences Building
- 13:00 Welcome to the participants
Update on practicalities / ev revise plan for the project meeting.
Lab tours
NanoLab
Local labs
Lab demonstrations
- 17:00 End first day
- 18:00 “Social Dinner”

Tuesday 5 April 2022

10:00 – 17:00 Project meeting

10:00 – 10:30 *Malgorzata Lekka*

(current status, report, tasks for the next reporting time)

Presentations (max. 20 minut + 5-10 min discussion)

10:30 – 11:00 *Ingrid Haga Øvreeide*

Status of microfluidics and future plans

11:00 – 11:20 *Joanna Zemła*

Status on microcontact printing and future plans

11:20 – 12:00 Microrheological measurements of cells by AFM

12:00 Lunch

In meeting room

13:00 Presentations (max. 20 minut + 5-10 min discussion)

13:00 – 13:30 *Marcin Luty*

Status on invasiveness of bladder cancer cells, future plans

13:30 – 14:00 *Renata Szydlak*

Status on single molecule force spectroscopy, future plans

14:00 – 14:15 *Victorien Prot*

Simulation of cell flow through channels

14:30 – 15:00 *Malgorzata Lekka* – Adhesion

15:00 Plans for IFJ PAN visitors

Experimental program / time period

19:00 “Project Dinner”

Wednesday 6 April 2022

10:00 Status, pending issues

11:00 Malgorzata Lekka, Guest Lecture

Biomechanics of living cells and tissues studied by atomic force microscopy

14:00 Summary
 Planning of experiments
 - research tasks
 - experiments:

As inter-laboratory visits will strengthen the collaboration between NTNU and IFJ PAN, common experiments at the NTNU have been foreseen for all team members (4 persons):

2020 (1 experiment), 2021 (2 experiments), 2022(2), 2023 (1)

- theory - modelling

18:00 Free evening / self-organizing”