

“Finnish Biobanks Aiding Fundamental Biomedical & Clinical Research”

Organizer: Health and Biosciences Doctoral Programme, University of Oulu Biocenter Oulu and Borealis Biobank of Northern Finland (BB) & FinBB

Time: 19-20.11.2018, Oulu University Medical School

Lecture hall: F101 (19.11.) and F202 (20.11.)

Monday 19.11.2018

09.00-09.10 Welcome and opening words by Seppo Vainio

09.10-09.20 University of Oulu greetings by Vice Rector Taina Pihlajaniemi

Session I. Value of the biobanks in medicine - Chair: Seppo Vainio

09.20-09.45 **Marco Hautalahti:** The Finnish biobank cluster FinBB and the European BBMRI

09.45-10.10 **Anu Jalanko:** National biobank effort - Finngen

10.10-10.40 **Joakim Dillner:** National and international collaboration via the biobanks

10.40-11.10 **Sirpa Soini:** The law and order in the biobank activities

10.10-11.30 **Minna Mäkinieniemi:** Biobanks, the university hospitals and the ethical aspects

11.30-12.30 Lunch break & interactions:

Session II: Biobanks and Finnish neuro-, cancer and genome centers - Chair: Pia Nyberg

12.30-12.50 **Ville Leinonen:** Prospects in Neuroscience

12.50-13.10 **Arto Mannermaa:** The emerging Genome center

13.10-13.30 **Jussi Koivunen:** FICAN – the Finnish Cancer Center

13.30-14.00 Coffee, tea and interactions

Session III: Cohorts and biobanks - Chair: Heljä-Marja Surcel

14.00-14.25 **Minna Ruddock:** Northern Finland Birth cohorts

14.25-14.50 **Heljä-Marja Surcel:** Finnish Maternity Cohort (FMC) and Finnish registers

14.50-15.15 **Tiina Wahlfors:** Finnish Red Cross biobanks

15.15-15.40 **Riitta Veijola:** National cohorts to study diabetes

15.40-16.05 **Johanna Uusimaa:** Clinical research resources at the MRC Oulu: patient cohorts, samples and infrastructure

Summary of the biobank day and closing Seppo Vainio

Dinner for the speakers 19-

Tuesday 20.11.2018

08.45-09.15 Coffee, tea and interactions

Session IV: Biobanks in practice – Chair: Tiina Pekkala

09.15-09.35 **Pia Nyberg:** Borealis in the arena of the Finnish biobanks

09.35-09.55 **Juha Näpänkangas:** Digital pathology and the biobanks

09.55-10.20 **Eila Suvanto:** Case studies with the biobanks samples

10.20-10.40 **Lila Kallio:** Auria Biobank - from discovery to feasibility studies

10.40-11.00 **Johannes Kettunen:** The genetics and the genome level BIG data in FinnGen

11.00-12.00 Lunch break and interactions

Session V: Biobanks and the health care digital era - Chair: Juha Röning

12.00-12.20 **Maritta Perälä-Heape:** Digital Health HUB to support research and innovation

12.20-12.40 **Marko Pylkkänen:** The digital world of the Oulu University Hospital

12.40-13.10 **Tarja Laitinen:** The biobank related data hubs and the data lakes

13.10-13.30 **Antti Karlsson:** Big(?) data analysis in healthcare

13.30-14.00 **Juha Röning:** Can we be safe in the digital worlds – the ethics of the digits ?

14.00-14.25 **Jussi Hiltunen:** Visions for mass produced bioelectronics and biosensors

14.25-14.50 **Tapio Seppänen:** Digital medicine on site, in the body and in remote

Summary of the biobank days and closing Seppo Vainio