



Centre for
Cancer Biomarkers
Norwegian Centre of Excellence – University of Bergen

6th ScanPath Network Meeting *Scandinavian Seminar on Translational Pathology*

Solstrand, November 14-15, 2022 (Bergen - Norway)

Scientific Program (final)

Day 1: Monday – November 14, 2022

09:00-10:00 Registration and Coffee

10:00-10:15 Welcome and Introduction: **Lars A. Akslen**

Chair session 1: Arne Östman

10:15-10:45 **Mattias Rantalainen:** AI-based precision pathology – scalable solutions for cancer patient stratification and phenotyping

10:45-11:00 **Marit Valla:** AICAN: AI for automatic breast cancer segmentation

11:00-11:15 **Mehrdad Rakaee:** AI-based pathology predicts immunotherapy response in lung cancer

11:15-11:30 **Stephanie Robertson:** Stratipath - Realworld application of AI-based image analysis in pathology

11:30-11:45 **Cecilia Lindskog Bergström:** Transcriptomics and antibody-based proteomics for mapping single-cell profiles of human tissues in health and disease

11:45-12:00 **Guttorm Haraldsen:** Single cell genomics during drug treatment — a novel aspect of intelligent drug design

12:00-13:30 LUNCH

Chair session 2: Marit Valla

13:30-14:00 **Pernilla Wikström:** Biological and clinical relevance of the transcriptomic-based prostate cancer metastasis subtypes MetaA-C

14:00-14:15 **Therese Sørli:** Spatial gene expression analysis reveal heterogeneity in HER2-enriched Ductal Carcinoma In Situ

14:15-14:30 **Lise Ingebriktzen:** Age-related biomarkers in breast cancer

14:30-14:45 **Helga Bergholtz:** Canine mammary gland tumors - comparable molecular subtypes between dogs and humans

14:45-15:00 **Anna Sæle:** Loss of GATA3 expression associates with aggressive breast cancer, and predicts increased immunological responses

- 15:00-15:15 **Dimitrios Kleftogiannis:** Single-cell analysis of breast cancer by imaging mass cytometry
- 15:15-15:30 Company presentation by *AH Diagnostics* and *Standard Biotoools (tbd)*.

15:30-16:00 COFFEE & CROSSTALK

Chair session 3: Carina Strell

- 16:00-16:15 **Artur Mezheyeuski:** Immune patterns across tumor types
- 16:15-16:30 **Oscar Briem:** Prognosis from tumor-infiltrating immune cells in advanced breast cancer
- 16:30-16:45 **Hui Yu:** Relevance of T cell clonality in NSCLC
- 16:45-17:00 **Amanda Lindberg:** The role of active PDGFRb signaling in NSCLC
- 17:00-17:15 **Roberta Lugano:** CD93 in regulation of tumor vessel function
- 17:15-17:30 Company presentation by *Miltenyi (Christian Garm)*.
- 17:30-17:45 Company presentation by *Aiforia (Darshan Kumar)*.

18:30-19:30 POSTERS & PROSECCO

19:30 DINNER

Day 2: Tuesday – November 15, 2022

Chair session 4: Therese Sørлие

- 09:00-09:30 **Teijo Pellinen:** Identification of tumor microenvironment cell subsets as prognostic factors in renal cell carcinoma
- 09:30-09:45 **Camilla T. Ekanger:** Human Organotypic Airway and Lung models to study danger signaling mediated immunosurveillance
- 09:45-10:00 **Agnete S. T. Engelsen:** The impact of phenotypic plasticity on the tumor immune interface
- 10:00-10:15 **Ole Bjørnstad:** Proteomic changes induced in co-cultured breast cancer spheroids by neural progenitor cells
- 10:15-10:30 **Carina Strell:** Spatial profiling of tumor heterogeneity in breast cancer

10:30-11:00 COFFEE & CROSSTALK

Chair session 5: Patrick Micke

- 11:00-11:15 **Anna Klemm:** Support on Image Analysis by the BioImage Informatics Facility, Sweden
- 11:15-11:30 **Fredrik Nysjö:** Image analysis and visualization for multiplexed image data
- 11:30-11:45 **Martina Bosic:** Deep skin annotation in Human Protein Atlas - a resource for cellular and functional classification of skin proteome
- 11:45-12:00 **Hilde Lien:** High dimensional analysis of tumor heterogeneity in recurrent and non-recurrent FIGO I endometrial carcinomas using imaging mass cytometry

12:00-13:30 LUNCH (CHECK-OUT TIME IS 12:00)

Chair session 6: Agnete Engelsen

- 13:30-13:45 **Joshua Cumming:** Cancer-associated fibroblast heterogeneity in pancreatic cancer
- 13:45-14:00 **Linglong Huang:** Discovery and spatial characterization of mesenchymal cell subsets in human colon cancer
- 14:00-14:15 **Harsh Dongre:** Decoding fibroblast heterogeneity by using imaging mass cytometry
- 14:15-14:30 **Helena Järemo:** Effects of microRNA-23c and -4328 overexpression in metastatic prostate cancer cells and tumour microenvironment
- 14:30-14:45 **Natalie Andersson:** Phylogenetic analysis of pediatric tumors
- 14:45-15:00 **Martin E. Johansson:** Clear cell renal cell carcinoma. Histological heterogeneity follows from Metabolic heterogeneity
- 15:00-15:15 Closing remarks: **Arne Östman**

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