

Methods in Cancer Biomarker Research

PhD course CCBio 905 October 27-29 2020

Centre for Cancer Biomarkers CCBio
Norwegian Centre of Excellence – University of Bergen (Norway)

Run as a digital event in Zoom. Access codes will be available to registered participants.

Day 1: Tuesday October 27, 2020

Session 1: Chair: Ingeborg Winge

09:00-09:30 Introduction to cancer biomarker research (Lars A. Akslen)

09:30-10:15 Basic techniques – Nucleotides (Elisabet Ognedal)

10:15-11:00 Basic techniques – Proteins (Dipak Sapkota)

11:00-11:15 **BREAK**

Session 2: Chair: Vandana Ardawatia

11:15-12:00 Epigenetics and miRNA (Erling Høivik)

12:00-12:45 Immunohistochemistry (Reidunn Jetne Edelman)

12:45-13:30 **LUNCH**

Session 3: Chair: Ingeborg Winge

13:30-14:15 In situ hybridization/RNAScope (Agnete Engelsen)

14:15-15:30 *Group assignments: preparation* (Agnete Engelsen)

Day 2: Wednesday October 28, 2020

Session 4: Chair: Vandana Ardawatia

09:00-09:45 Tissue microdissection and proteomics (Kenneth Finne/Even Birkeland)

09:45-10:15 Flow cytometry (Jørn Skavland)

10:15-11:00 **BREAK**

Session 5: Chair: Vandana Ardawatia

11:00-11:45 Liquid biopsy (Oddmund Nordgård)

11:45-12:15 Bioinformatics; the basics (David Dolan)

12:15-13:00 **LUNCH**

Session 6: Chair: Ingeborg Winge

13:00-13:45 Cluster analysis of omics data (David Dolan)

13:45-14:30 Mass Cytometry Imaging I (Jørn Skavland & Sonia Gavasso)

14:30-14:45 **BREAK**

Session 7: Chair: Ingeborg Winge

14:45-15:15 Mass Cytometry Imaging II (Ingeborg Winge & Kenneth Finne)

15:15-15:45 Mass Cytometry Imaging III (Dimitrios Kleftogiannis)

15:45-16:30 Companion diagnostics, biomarkers, and the industry perspective (Dr. Mike Flores, M.D. MBA, Staff Pathologist, Roche) **(Chaired by Prof. James Lorens)**

Day 3: Thursday October 29, 2020

Session 8: Chair: Vandana Ardawatia

09:00-09:30 Animal and cell models (Carina Strell)

09:30-10:15 Tissue organoids (Heidrun Vethe)

10:15-10:30 **BREAK**

Session 9: Chair: Vandana Ardawatia

10:30-11:15 Biobanking (Ann Cathrine Krogsveen)

11:15-12:00 Next Generation Sequencing (Olav Vintermyr)

12:00-13:00 **LUNCH**

Session 10: Chair: Ingeborg Winge

13:00-13.45 Nanostring analysis (Karen Toska)

13:45-14:30 Beyond NGS (Eivind Valen)

14:30-14:45 **BREAK**

14:45-17:00 *Group assignments: presentations and discussion* (Agnete Engelsen)

This course is open to PhD candidates affiliated with the Centre for Cancer Biomarkers CCBIO, other PhD candidates and to students at the Medical Student Research Program **(5-credit course)**.

Academic responsibility:

Lars A. Akhlen and Agnete Engelsen (CCBIO)

Contact:

Course coordinator: Ingeborg Winge – ingeborg.winge@uib.no

Administration: Kjetil Harkestad – kjetil.harkestad@uib.no

Note that there are 2 registration links:

With ECTS: For those who attend the complete course, incl. group assignments, and be eligible for the 6 ECTS or a course diploma: [Reg. link full course.](#)

No ECTS: For those who are only interested in the lectures and want to hop in and out as they please (will not get ECTS or diploma): [Reg. link lectures.](#)

Registration will be closed at no notice when maximum is reached.