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 Edelmann)
12:45-13:30 LUNCH
Session 3: Chair: Ingeborg Winge
13:30-14:15 In situ hybridization/RNAScope (Agnete Engelsen)
14:15-15:00 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. Akslen 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.