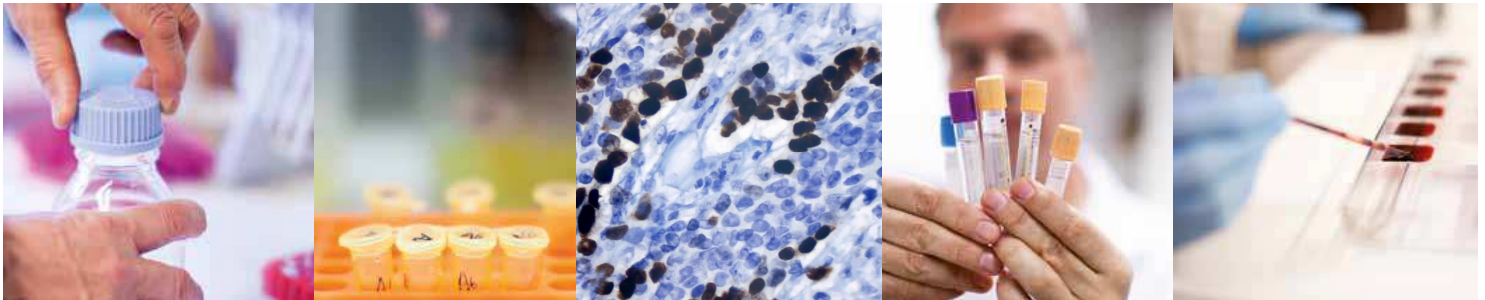


Methods in Cancer Biomarker Research

PhD course CCBIO905

22-24 September 2015

The course covers theoretical and practical aspects of molecular cancer biomarkers and how these can be studied in patient samples and material from various types of experimental models.



The course will provide an introduction to methods for studying cancer biomarkers. Methods for detection of proteins and genes in different biological samples will be presented. Basic techniques like ELISA, western blot and Sanger sequencing will be explained, as well as more advanced techniques like next generation sequencing and proteomics. Furthermore, the issue of prognostic and predictive biomarkers in the clinical setting will be discussed.

Day 1: Tuesday September 22nd (BBB Auditorium 1)		Day 2: Wednesday September 23rd (Haukeland University Hospital, B301)		Day 3: Thursday September 24th (Haukeland University Hospital, B301)	
09:00-09:30	Introduction to cancer biomarker research (Lars A. Akslen)	09:00-09:45	Basic techniques – Nucleotides (Elisabet O. Berge)	09:00-09:30	Proteomics (Even Birkeland)
09:30-10:15	Immunohistochemistry (Tarig Osman)	09:45-10:15	Flow cytometry (Jørn Skavland)	09:30-10:15	Animal and cell models (Arne Östman)
10:15-10:45	COFFEE	10:15-10:45	Next Generation Sequencing (Christine Stansberg)	10:15-10:30	COFFEE
10:45-11:15	In situ hybridisation (Karin Wibrand)			10:30-12:30	PRESENTATIONS (Jim Lorens)
11:15-12:00	MEArrays (Tiina Jokela)	10:45-11:00	COFFEE	12:30-13:30	LUNCH
12:00-13:00	LUNCH	11:00-11:45	Microarray analysis (Elisabeth Wik)	13:30-14:15	Biobanking (Hanne E. Puntervoll)
13:00-13:30	Basic techniques – Proteins (Dipak Sapkota)			14:15-14:30	COFFEE
13:30-14:15	Clinical applications of cancer biomarkers (Oddbjørn Straume)	11:45-12:15	miRNA (Kai Ove Skaftnesmo)	14:30-16:00	CCBIO Seminar (Bruce Baguley, The University of Auckland, New Zealand)
14:15-15:00	Liquid biopsy (Oddmund Nordgård)	12:15-13:15	LUNCH		
15:00-16:00	GROUP DISCUSSIONS (Jim Lorens)	13:15-15:15	GROUP DISCUSSIONS		
		15:15-16:00	Bioinformatics (Konstantina Dimitrakopoulou)		

This course is open to PhD candidates, postdocs, medical students, technicians and others interested **(5-credit course)**.

For registration and more information: <http://www.uib.no/en/course/CCBIO905>

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