



PhD course

PERSONALIZED MEDICINE IN CLINICAL CANCER RESEARCH.

MANDATORY PhD course for the programme Biomedicine

- Organizers:** Ole Thorlacius-Ussing, Professor, MD, DMSc (otu@rn.dk), Department of Surgery, Aalborg UH; Ursula Falkmer, Professor, MD, PhD (u.falkmer@rn.dk), Department of Oncology, Aalborg UH; Stine Dam Henriksen, MD, PhD (stdh.@rn.dk), Department of Surgery, Aalborg UH; Laurids Ø Poulsen, MD, PhD, (LØP@rn.dk) assoc. professor, Department of Oncology, Aalborg UH
- Lecturers:** Ole Thorlacius-Ussing, Morten Ladekarl, Weronika Szejniuk, Lone Sunde, Ida Holm, Lykke Grubach, Martin Bøgsted, Mads Sønderkær, Hanne Due, Tarec C. El-Galaly, Stine Dam Henriksen, Laurids Ø. Poulsen, Britt E. Laursen, Bent Honoré, Helle D. Zacho, Benjamin Emil Stubbe, Christophe Mapendano, Tenna Henriksen
- ECTS:** 2.0
- Time:** 25 – 27 October 2023
- Place:** Hotel Amerika, Amerikavej 48
- Zip code:** 9500
- City:** Hobro
- Number of seats:** 15
- Deadline:** 4 October 2023
- Program:** B – **mandatory course** (also relevant for CPM and CSLTM)

Description

This PhD course is offered by the Doctoral School of Clinical Science and Biomedicine, Aalborg University and Clinical Cancer Research Center, Aalborg University Hospital (CCRC-Aalborg UH)

This PhD course is aimed at PhD students working within the field of translational and clinical cancer research. The course will touch on several topics related to translational cancer research, including basic science methodologies, statistics and bioinformatics, and the key points in clinical trials. The basic science lectures touch upon molecular pathology, tumour heterogeneity, molecular biology as well as the currently used methods to elucidate these topics. The bioinformatic lectures will focus on workflows for personalized medicine, interpretation of sequencing data, and clinical implications. The clinical lectures will discuss current clinical questions and evidence for PM.

Literature

Relevant book chapters and scientific articles will be advised.

Prerequisites

The PhD students will be involved in a presentation of their own scientific projects (gunshot model). It is expected that all PhD students have read the scientific papers that will be circulated before the course.

Evaluation

Participants are expected to attend all lectures as well as to present their own projects and actively take part in scientific discussions.

Further information

Secretary assistant Lise Tordrup Elkjær, lit@rn.dk / +45 9766 3869.



Programme

Day 1, Wednesday 25 October 2023

Time	Lecture	Organizer/Lecturer
12.00-12.30	Arrival	
12.30-13.30	Lunch and welcome	
13.30-13.40	Introduction	Ole Thorlacius-Ussing Ursula Falkmer
13.40-14.40	Personalized medicine: introduction From bedside – laboratory – bedside	Morten Ladekarl
14.45-15.15	Molecular biology: principles and technologies	Hanne Due
15.15-16.00	Clinical proteomics: biomarkers and drug targets	Bent Honoré
16.00-16.30	Break	
16.30-17.30	Next generation sequencing/ whole genome sequencing	Mads Sønderkær
17.30-18.10	Liquid biopsies	Tenna Henriksen
18.10-18.30 18.30-18.50	PhD presentation no. 1 PhD presentation no. 2	
19.00-20.00	Dinner	
20.00-	<i>Further discussions and get-together students and lecturers</i>	



Day 2, Thursday 26 October 2023

Time	Lecture	Organizer/Lecturer
08.00-08.30	Breakfast	
08.30-08.50	PhD presentation no. 3	
08.50-09.10	PhD presentation no. 4	
09.10-09.55	Clinical genetics	Lone Sunde
09.55-10.15	Break	
10.15-11.00	Molecular pathology: solid tumours and haematological malignancies	Lykke Grubach Ida Holm
11.00-11.45	Finding and targeting genomic alterations	Britt E. Laursen
12.00-13.00	Lunch	
13.00-14.00	Clinical drug development	Tarek C. El-Galaly
14.00-15.00	Bioinformatics and statistics in biomarker development	Martin Bøgsted
15.00-15.45	Billedmodaliteter	Helle D. Zacho
15.45-16.45	Break, walk and talk	
16.45-17.30	Clinical evidence and future aspects for PM Future concepts: Immunotherapy, MMR mutation, WWP-protokol	Laurids Ø Poulsen
17.30-17.50	PhD presentation no. 5	
17.50-18.10	PhD presentation no. 6	
18.10-18.30	PhD presentation no. 7	
18.30-18.40	General discussion	All students and tutors/lecturers
19.00-20.00	Dinner	
20.00-	<i>Further discussions and get-together students and lecturers</i>	



Day 3, Friday 27 October 2023

Time	Lecture	Organizer/Lecturer
08.00-09.00	Breakfast	
09.00-11.15	Ongoing clinical trials: ProSeq studies, tumormarkører ved pancreascancer	Christophe Mapendano Stine Dam Henriksen Benjamin Emil Stubbe
11.15-11.30	Break	
11.30-11.50 11.50-12.10 12.10-12.30	PhD presentation no. 8 PhD presentation no. 9 PhD presentation no. 10	
12.30-13.15	Lunch	
13.15-14.00	Clinical trials in mesothelioma and lung cancer	Weronika Szejniuk
14.00-14.45	Course evaluation (incl. afternoon refreshments)	Ole Thorlacius-Ussing Ursula Falkmer
15.00	End of course	