

Danish Hematological Research Educational Network

2018 Annual PhD course: *"Precision medicine in Hematology"*

Hotel Severin, Middelfart, 8-9 March 2018

Course leadership: Karen Dybkær, professor, AAU

Provided by: PhD school, Aalborg University, AAU

Description of the course:

This PhD course is aimed at PhD students working within the field of hematology as either experimental or medical researchers. The course will cover technologies often used in precision medicine, discussions on how to interpret and implement genetic information in a clinical setting and touch upon future improvements.

ECTS: 1.5

Thursday 8 March 2018

- 11:00 - 12:00 Arrival and Lunch
- 12:00 - 12:10 Welcome
Karen Dybkær
- 12:10 - 12:55 *Next-Generation Sequencing* – technique and data analysis,
Mads Sønderkær, Post doc. (AAU)
- 12:55 - 13:40 *Single gene and gene panel sequencing*
Anni Aggerholm, Mol Biol (AUH)
- 13:40 - 14:00 Coffee and Networking
- 14:00 - 14:45 *Plasma DNA in precision medicine.* Methods, technology,
equipment and application for diagnosis and monitoring of
treatment effect.
Rikke Fredslund. Ass. Professor (Vejle, SDU)
- 14:45 - 16:10 *Colloquia on genetic landscape and impact on disease and
treatment*
Reading and discussion of key papers –
1. Genetic and Functional Drivers of Diffuse Large B Cell
Lymphoma. Reddy et al, Cell. 2017, PMID: 28985567
2. Distinct biological subtypes and patterns of genome evolution
in lymphoma revealed by circulating tumor DNA. Scherer et al.
Sci Transl Med. 2016. PMID: 27831904
Karen Dybkær, professor (AAU)
- 16:10 - 16:40 *Project “walk and talk”*
- 16:40 - 18:00 *PhD project presentations*
- 18:30 - 20:00 Dinner
- 20:00 - 21:30 *Networking and Discussion.*
Professors Peter Hokland (AU), Henrik Sengeløv (KU), Hans
Hasselbalch (RUH), Niels Abildgaard(SDU), Lars Møller Pedersen
(KU), Niels Pallisgaard (Reg Sjaelland), Karen Dybkær (AAU)

Friday 9 March 2018

- 08:00 - 09:00 Breakfast
- 09:00 - 09:45 *Critical methodological factors in diagnosing MRD*
Charlotte Nyvold, professor (SDU)
- 09:45 - 10:30 *Functional screening of the genome using lentivirus-based CRISPR libraries*
Emil Aagaard Thomsen, phd student (AU)
- 10:30-10:50 Coffee and Networking
- 10:50 – 12:00 *Precise Genome Editing of Hematopoietic Stem Cells and colloquia*
Rasmus O Bak, Ass. Professor, (AU)
1. CRISPR/Cas9 β -globin gene targeting in human haematopoietic stem cells. Dever DP, Bak RO et al. Nature. 2016. PMID: 27820943
- 12:00 -12:15 Evaluation and closing remarks
- 12:15 -13:00 Lunch and Adjourn

The course is open for sign-in by

Electronic assignment at PhD moodle:

<https://phd.moodle.aau.dk/login/index.php> or <http://phdcourses.dk/>

or

1. Mail to research secretary Anne Lindblom Hansen: a.lindblom@rn.dk
Please note that you only are accepted at the course when you have received a mail of confirmation from Anne Lindblom.

Dead-line for registration is 20 February 2018.

The number of students will be 20 and PhD students have priority, but master and research year students will be considered if not all seats are occupied.