

Press release

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Basic information

Name: Anne Hald Rittig Email: annehaldrittig@gmail.com Phone: 22623244

Department of: Clinical Medicine

Main supervisor: Professor Lars Iversen

Title of dissertation: MicroRNA profiling in Cutaneous T-cell lymphoma

Date for defence: 28th January at (time of day): 15 Place: Aarhus University Hospital, Palle Juul Jensens Boulevard 99, Entrance C-C110, Auditorium C114-101, 8200 Aarhus N

Press release (Danish)

MikroRNA profilering ved lymfekræft i huden.

microRNAs rolle ved lymfekræft i huden karakteriseres i et nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Anne Hald Rittig, der afholder sit PhD-forsvar d. 28.01.20 Den hyppigste form for lymfekræft i huden, kaldet mycosis fungoides (MF), er i de sene stadier kendetegnet ved svulster og erythrodermi. Sézary syndrome (SS) er en erythrodermisk version af lymfekræft i huden med blod-involvering. Klinisk adskillelse af erythrodermisk MF (eMF) fra SS kan være svært. Forskning har vist, at mikroRNA spiller en mulig rolle ved lymfekræft i huden. En anden mulig årsag til sygdomsudvikling ved lymfekræft i huden er Stafylokokkus aureus, idet Stafylokokk toxiner er vist at kunne inducere proliferation (vækst) af maligne T-celler.

I denne afhandling undersøges det hvordan mikroRNA ekspression i læsionel hud fra eMF er forskellige fra SS og muligvis kan bruges til at skelne de to sygdomme. Ydermere karakteriseres mikroRNA-195 i MF. MikroRNA-195 er kendt fra andre cancertyper og spiller en mulig rolle ved celledelingen i flere kræftsygdomme. Lymfekræft i huden kan bedres ved indgift af antibiotisk behandling. I ph.d.-projektet undersøges det om forbedringerne ved antibiotika er associeret med ændringer i mikroRNA profilen.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 28/01-20 kl. 15 i C114-101 auditorium, Aarhus Universitet Hospital, Palle Juul Jensens Boulevard 99, Aarhus N. Titlen på projektet er "microRNA profiling in Cutaneous T-cell Lymphoma". Yderligere oplysninger: Ph.d.-studerende Anne Hald Rittig, e-mail: annehaldrittig@gmail.com, tlf. 22623244.

Bedømmelsesudvalg:

Professor Annamari Ranki, MD, PhD. Department of Skin and Allergic Diseases, Skin and Allergy Hospital, Helsinki University Central Hospital

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Department of Histopathology, Aarhus University Hospital.

Press release (English)

MicroRNA profiling in Cutaneous T-cell Lymphoma.

A new PhD project investigating the role of microRNAs in cutaneous T-cell lymphoma was carried out by Anne Hald Rittig, who is defending her dissertation on January 28th. Cutaneous T-cell lymphomas (CTCL) represent a group of heterogeneous diseases. Two of the most common types of CTCL are mycosis fungoides (MF) and Sézary syndrome (SS). It can be hard to discriminate SS patients from

patients with erythrodermic MF (eMF). The etiology of CTCL is elusive. Recent studies have indicated that microRNAs (miRNA) play a potential role in CTCL pathogenesis. Moreover, *Staphylococcus aureus* and its toxins may drive CTCL disease progression.

This PhD-study investigate if the miRNA expression profile differs between eMF skin and SS skin. In addition, miRNA-195 a known tumor-suppressor is characterized in MF. Lastly, the PhD-study explores if antibiotic-induced clinical and histological improvement is associated with changes in the miRNA profile.

The defence is public and takes place on January 28th at Aarhus Universitet Hospital in auditorium C114-101, Palle Juul Jensens Boulevard 99, Aarhus N". The title of the project is "microRNA profiling in Cutaneous T-cell Lymphoma. For more information, please contact PhD student Anne Hald Rittig, annehaldrittig@gmail.com, Phone +45 22623244.

Assessment committee:

Annamari Ranki, MD, PhD, Professor. Department of Skin and Allergic Diseases, Skin and Allergy Hospital, Helsinki University Central Hospital

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Department of Histopathology, Aarhus University Hospital. , title and place of employment of the three members of the committee

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