

## Press release

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### Basic information

Name: Christoffer Trier Månsson

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Department of: Clinical Medicine

Main supervisor: Boe Sandahl Sørensen

Title of dissertation: Blood biomarkers - A study on circulating DNA in lung cancer patients

Date for defence: 14-03-2025 at (time of day): 13:00-15:00 Place: Merete Barker Auditoriet (1253-211)

Press release (Danish)

Overskrift

Kræftpatienter har frit DNA i blodbanen, hvilket kan fortælle os meget om den drivende kraft bag tumorens udvikling. Via simple blodprøver kan vi observere kræftcellernes mutationer og genaktivitet, som kan hjælpe klinikere med at vælge den bedste behandling til hver enkelt patient. Projektet er udført af Christoffer Trier Månsson, der forsvaret det d. 14/03, og omhandler, hvordan vi kan få mest mulig information ud af blodprøverne. Hans resultater viser blandt andet hvordan vi kan optimere detektionen af kræft DNA i blodet. Herudover, har han udviklet nye metoder, der kan anvendes på blodprøverne til at få et større indblik i kræftcellernes biologi. Tilsammen, kan hans opdagelser bruges til at opdage behandlingsresistens tidligere samt forklare hvorfor nogen patienter har bedre gavn af behandlingen end andre.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 14/03-2025 kl. 13:00 i Merete Barker auditoriet, Aarhus Universitet, Bartholins Allé 3, 8000 Aarhus C. Titlen på projektet er "Blood biomarkers - A study on circulating DNA in lung cancer patients". Yderligere oplysninger: Ph.d.-studerende Christoffer Trier Månsson, e-mail: [ctm@clin.au.dk](mailto:ctm@clin.au.dk), tlf. 27288297.

Formand og ordstyrer for forsvaret:

Prof. Karina Dalsgaard Sørensen, MSc, PhD

Department of Molecular Medicine (MOMA), Aarhus University Hospital, Denmark

Ekstern international opponent:

Assoc. Prof. Lao Saal, MD, PhD

Division of Oncology, Department of Clinical Sciences Lund, Lund University

Cancer Center, Sweden

Ekstern national opponent:

Assoc. Prof. Lars Grøntved, MSc, PhD

Department of Biochemistry and Molecular Biology, University of Southern Denmark,

Denmark

Press release (English)

Headline

Cancer patients have free DNA in the blood stream which contain pivotal information about the driving forces of tumor development. Via simple blood tests it is possible to observe the cancer cell mutations and gene activity, which can guide clinicians to choose the best treatment strategy for individual patients. The project was carried out by Christoffer Trier Maansson, who is defending his dissertation on 14/03, and primarily describes how we can obtain most information of the blood samples. For example, his results show how we can optimize the detection of cancer DNA in the blood.

In addition, he has developed new blood test methods which provide better insight into the cancer cell biology. Together, his discoveries can be used to detect treatment resistance earlier and explain why some patients respond better to the treatment than others.

The defence is public and takes place on 14/03-2025 at 01:00 PM in Merete Barker auditorium, Aarhus University, Bartholins Allé 3, 8000 Aarhus C. The title of the project is "Blood biomarkers - A study on circulating DNA in lung cancer patients". For more information, please contact PhD student Christoffer Trier Maansson, email: [ctm@clin.au.dk](mailto:ctm@clin.au.dk), Phone +45 2728 8297.

Chairman and moderator of the defence:

Prof. Karina Dalsgaard Sorensen, MSc, PhD

Department of Molecular Medicine (MOMA), Aarhus University Hospital, Denmark

External international opponent:

Assoc. Prof. Lao Saal, MD, PhD

Division of Oncology, Department of Clinical Sciences Lund, Lund University

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