

Press release

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Basic information

Name: Michelle S. Clement Email: misc@clin.au.dk Phone: +45 23837174

Department of: Clinical Medicine

Main supervisor: Professor Boe Sandahl Sørensen

Title of dissertation: Circulating biomarkers and resistance to tyrosine kinase inhibitors in solid cancer

Date for defence: September 3rd 2020 at (time of day): 12.00 Place: Auditorium G206-142, G206 Aarhus University Hospital, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N

Press release (Danish)

Studier af cirkulerende biomarkører og behandlingsresistens i lunge- og leverkræft

Det sidste årtis forskning i frit cirkulerende tumor DNA (ctDNA) har øget vores forståelse af tumor udvikling, biologi og molekylære kendetegn. Opdagelsen af specifikke genetiske ændringer, der driver sygdommen, har ført til udvikling af målrettet, personlig medicin, der har forbedret behandlingen af ikke-småcellet lungekræft betydeligt. Dog er behandlingsresistens fortsat en begrænsende faktor for det kliniske respons til disse behandlinger. I dette nye ph.d.-projekt undersøger vi resistensudvikling til målrettede behandlinger i Epidermal Growth Factor Receptor (EGFR) muterede ikke-småcellet lungekræft patienter. Derudover har vi undersøgt anvendelsesmulighederne af ctDNA som biomarkør i leverkræft til brug i diagnosticering og prognoseforudsigelse.

Resultaterne er sammenfattet i et nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Michelle S. Clement, der forsvare det d. 3. september 2020

Forsvaret af ph.d.-projektet er offentligt og finder sted den 03/09/2020 kl. 12.00 i Auditorium G206-142, G206 Aarhus Universitetshospital, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N

Titlen på projektet er "Circulating biomarkers and resistance to tyrosine kinase inhibitors in solid cancer". Yderligere oplysninger: Ph.d.-studerende Michelle S. Clement, e-mail: misc@clin.au.dk, tlf. +45 23837174.

Bedømmelsesudvalg:

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Department of Pulmonary Medicine, University of Groningen, University Medical Centre Groningen, The Netherlands

Press release (English)

Studies of circulating biomarkers and resistance to treatment in lung cancer and hepatocellular carcinoma

Research of circulating tumor DNA (ctDNA) in the last decade has substantially improved our knowledge on tumor evolution, biology and molecular characteristics. Identification of oncogenic drivers has led to great advances in treatment of advanced-stage non-small cell lung cancer (NSCLC)

by implementation of targeted therapies. Yet, intrinsic and acquired drug resistance remain a limiting factor of clinical response. The aims of this new PhD study were to gain insight into mechanisms of resistance to TKI treatments in Epidermal Growth Factor Receptor (EGFR) mutated NSCLC. Furthermore, we investigated the utility of ctDNA as a biomarker in hepatocellular carcinoma for use in diagnosis and prognosis.

The results are presented in a new PhD project carried out by Michelle S. Clement, who is defending her dissertation on September 3rd 2020

The defence is public and takes place on 03/09/2020 at 12.00 in Auditorium G206-142, G206 Aarhus University Hospital, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N

The title of the project is "Circulating biomarkers and resistance to tyrosine kinase inhibitors in solid cancer ". For more information, please contact PhD student Michelle S. Clement, email: misc@clin.au.dk, Phone +45 23837174.

Assessment committee:

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