

Press release

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Basic information

Name: Marlene Louise Nielsen

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Department of: Biomedicine

Main supervisor: Henrik Birn

Title of dissertation: Characterization of genetic variation and cyst membrane protein expression in autosomal dominant polycystic kidney disease with potential impact on prognosis and treatment

Date for defence: 15.10.2021 at (time of day): 14.00 Place: Auditorium A (1162-013)

Press release (Danish)

PhD forsvar - Marlene Louise Nielsen

Den autosomal dominante form af cystenryesygdme kaldet ADPKD er karakteriseret ved udvikling og vækst af væskefyldte nyrecyster, der med tiden ødelægger nyrevævet og leder til tab af nyrefunktion og i mange tilfælde nyresvigt. Der findes ingen behandling, der kan helbrede ADPKD, og det er i dag alene muligt af forsinke udviklingen af sygdommen nogle få år med medicinsk behandling.

For at øge livskvaliteten hos patienter og reducere omkostningerne for samfundet er det vigtigt at kunne forudsige hvordan patientens sygdom vil forløbe, samt at forbedre effekten og mindske bivirkningerne af eventuel behandling. Det overordnede mål med dette PhD-projekt fra Aarhus Universitet, Health, var at undersøge de sygdomsdisponerende genfejl i danske ADPKD-patienter, den prognostiske værdi af genetiske markører, samt muligheden for at benytte nyreproteinet megalin til at øge nyrecysternes optag af potentielle lægemidler, der vil kunne bremse cysternes vækst. Projektet er gennemført af cand scient. Marlene Louise Nielsen, der forsvare sin afhandling d. 15/10.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 15/10 kl. 14.00 i Auditorium A (1162-013), Aarhus Universitet, Ole Worms Allé 4, 8000 Aarhus C. Titlen på projektet er "Characterization of genetic variation and cyst membrane protein expression in autosomal dominant polycystic kidney disease with potential impact on prognosis and treatment". For yderligere oplysninger kontakt Ph.d.-studerende Marlene Louise Nielsen, e-mail: marlene.n@biomed.au.dk, tlf. 24612359.

Bedømmelsesudvalg: Professor, Thomas Juhl Corydon, Department of Biomedicine, Aarhus University, Aarhus, Denmark (chairman)

Adjunct Professor, research group leader, Department of Medicine, University of Freiburg, Head & Medical Director, Center for Human Genetics, Mainz, Carsten Bergmann, University Medical Center Freiburg, Zentrale Klinische Forschung, Freiburg, Germany

Associate professor, Kirsten Madsen, The Cardiovascular and Renal Research Unit, Department of Molecular Medicine, University of Southern Denmark, Odense, Denmark

Press release (English)

PhD defence - Marlene Louise Nielsen

The autosomal dominant form of cystic kidney disease is called ADPKD. It is characterized by development and growth of fluid filled kidney cysts that damage the kidney tissue resulting in a decrease in kidney function and possibly kidney failure. Presently, no treatment able to cure ADPKD exists, but medical drugs are able to delay progression of the disease for some years.

To increase the quality of life in patients and reduce the costs for society it will be essential to improve prediction of disease progression as well as to increase the effect and reduce the side effects of potential treatment. The overall aim of this PhD-dissertation from Aarhus University, Health, was to examine the disease causing gene defects in Danish ADPKD-patients, the prognostic value of genetic

markers and the potential of the kidney protein megalin to increase the uptake in kidney cysts of potential medical drugs able to slow cyst growth. The project was carried out by cand scient. Marlene Louise Nielsen, who is defending her dissertation on 15/10.

The defence is public and takes place on 15/10 at 14.00 in Auditorium A (1162-013), Aarhus University, Ole Worms Allé 4, 8000 Aarhus C. The title of the project is "Characterization of genetic variation and cyst membrane protein expression in autosomal dominant polycystic kidney disease with potential impact on prognosis and treatment". For more information, please contact PhD student Marlene Louise Nielsen, email: marlene.n@biomed.au.dk, Phone +45 2461 2359.

Assessment committee: Professor, Thomas Juhl Corydon, Department of Biomedicine, Aarhus University, Aarhus, Denmark (chairman)
Adjunct Professor, research group leader, Department of Medicine, University of Freiburg, Head & Medical Director, Center for Human Genetics, Mainz, Carsten Bergmann, University Medical Center Freiburg, Zentrale Klinische Forschung, Freiburg, Germany
Associate professor, Kirsten Madsen, The Cardiovascular and Renal Research Unit, Department of Molecular Medicine, University of Southern Denmark, Odense, Denmark

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