

## Media release

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### Basic information

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Department of: Clinical Medicine

Main supervisor: Jan Frystyk

Title of dissertation: IGFBP-4 and PAPP-A in normal physiology and disease

Date for defence: Arril 21<sup>st</sup> at (time of day): 14:00 Place:  
Palle Juul Jensen auditorium, Aarhus University Hospital, Nørrebrogade 44, Building 10, 8000 Aarhus C

Media release (Danish)

IGFBP-4 og PAPP-A i normal fysiologi og sygdom

Et nyt ph.d.-projekt fra Aarhus Universitet, Health, undersøger funktionen af to proteiner, insulin-lignende vækstfaktor bindingsprotein 4 (IGFBP-4) og pregnancy-associated plasma protein-A (PAPP-A), i sundhed og sygdom. Projektet er gennemført af Rikke Hjortebjerg, der forsvarer sin ph.d.-grad d. 21. april 2017.

I dette ph.d.-studium undersøges reguleringen af IGFBP-4 og enzymet PAPP-A, der har betydning for regulering af vækstfaktoren IGF-I. Proteinerne er involverede i en lang række sygdomstilstande, heriblandt kræft, diabetes og hjertekarsygdom. Undersøgelserne er baseret på nye immunologiske analyser til bestemmelse af IGFBP-4 og to IGFBP-4 fragmenter, der dannes ved PAPP-A-medieret nedbrydning. Resultaterne fra studiet bekræfter en kompleks involvering af IGF-IGFBP-4-PAPP-A akser i pattedyrs fysiologi.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 21. april kl. 14 i Palle Juul Jensen auditoriet, Aarhus University Hospital, Nørrebrogade 44, Building 10, 8000 Aarhus C. Titlen på projektet er "IGFBP-4 and PAPP-A in normal physiology and disease". Yderligere oplysninger: ph.d.-studerende Rikke Hjortebjerg, e-mail: [rikke.hjortebjerg@clin.au.dk](mailto:rikke.hjortebjerg@clin.au.dk), tlf. 61668045.

Media release (English)

IGFBP-4 and PAPP-A in normal physiology and disease

A new Ph.D. project from Aarhus University, Health, investigates the effects of two proteins, insulin-like growth factor binding protein-4 (IGFBP-4) and pregnancy-associated plasma protein-A (PAPP-A), in normal physiology and disease. The project was carried out by Rikke Hjortebjerg, who is defending her dissertation on April 21<sup>st</sup> 2017.

The study investigates the regulation of IGFBP-4 and the enzyme PAPP-A that are important modulators of the growth factor IGF-I. The proteins are involved in numerous diseases, including diabetes, cardiovascular disease, and cancer. The investigations are based on novel immunoassays for IGFBP-4 and the two IGFBP-4 fragments, which are generated upon degradation by PAPP-A. The results provide new insights into the function of the IGF-IGFBP-4-PAPP-A axis in mammalian physiology.

The defence is public and takes place on the April 21<sup>st</sup> at the Palle Juul Jensen auditorium, Aarhus University Hospital, Nørrebrogade 44, Building 10, 8000 Aarhus C. The title of the project is "IGFBP-4 and PAPP-A in normal physiology and disease". For more information, please contact Ph.D. student Rikke Hjortebjerg, email: rikke.hjortebjerg@clin.au.dk, Phone +45 61668045.

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