

Press release

Please fill in this form and return it to graduateschoolhealth@au.dk in Word format no later than three weeks prior to your defence.

Basic information

Name: Martin Lund

Email: martin.lund@clin.au.dk

Phone: N/A

Department of: Choose one Clinical medicine

Main supervisor: Rikke K. J. Olsen

Title of dissertation: Activation and alleviation of cellular stress responses in fatty acid oxidation disorders

Date for defence: 23.08.19 at (time of day): 11:00 Place: Auditorium C114-101 entrance C Aarhus University Hospital, Skejby.

Press release (Danish)

Essentielt peptid-antioxidant system er påvirket i medfødte sygdomme i fedtstofskiftet

Et nyt ph.d.-projekt fra Aarhus Universitet har undersøgt sekundære sygdomsfaktorer i medfødte stofskiftesygdomme, der påvirker kroppens evne til at forbrænde fedtsyrer og derved opretholde kroppens energibalance. Patienter med disse sygdomme lider blandt andet af uforklarlige muskelkomplikationer. Ph.d.-projektet har fundet indikationer på, at specielt udmatning af cellernes antioxidantssystemer kan give ophav til disse komplikationer, og har undersøgt mulige strategier til forebyggelse og behandling. Projektet er udført på Health, Aarhus Universitet, og på det naturvidenskabeligt fakultet på John Moores University Liverpool, England og er gennemført af cand.scient. og ph.d.-studerende, Martin Lund. Et offentligt forsvar af ph.d. afhandlingen "Activation and alleviation of cellular stress responses in fatty acid oxidation disorders" vil finde sted den 23. august kl. 11.00 i auditorium C114-101 indgang C på Aarhus Universitetshospital, Skejby. Yderligere oplysninger, kontakt ph.d.-studerende Martin Lund, e-mail: martin.lund@clin.au.dk.

Formand for bedømmelsesudvalget: lektor Charlotte B. Sørensen, Institut for Klinisk Medicin, Aarhus Universitet. Øvrige medlemmer af bedømmelsesudvalget: Professor Carsten Lundby, center for aktiv sundhed, rigshospitalet. Professor og cheflæge Ute Spiekerkötter, afdeling for pædiatri, ungdomsmedicin og neonatologi, Freiburg Universitetshospital. Lektor Rikke K. J. Olsen (hovedvejleder for projektet), molekylærmedicinsk forskningsenhed, Aarhus Universitet og Aarhus Universitetshospital.

Press release (English)

Essential peptide-antioxidant system is affected in inborn errors of lipid metabolism

A new Ph.D. project from Aarhus University has investigated secondary disease drivers in inborn metabolic disorders that affect the body's ability to oxidize lipids and thereby maintain the body's energy balance. Patients with these disorders suffer from unexplained muscle complications. The Ph.D. project has found indications that depletion of cellular antioxidant systems may give rise to these complications, and has investigated possible strategies for prevention and treatment.

The project was performed at Health, Aarhus University and at the Faculty of Science at John Moores University Liverpool, England and has been completed by M.Sc. and Ph.D. student, Martin Lund. A public defense of the Ph.D. thesis "Activation and relief of cellular stress responses in fatty acid oxidation disorders" will take place on August the 23 at 11:00 in auditorium C114-101 entrance C Aarhus University Hospital, Skejby. For further information, please contact Ph.D.-student Martin Lund, e-mail: martin.lund@clin.au.dk

Chair of the evaluation committee: Associate Professor Charlotte B. Sørensen, Department of Clinical Medicine, Aarhus University. Other members of the evaluation committee: Professor Carsten Lundby, Center for Physical Activity Research, Rigshospitalet. Professor and Chief Medical officer Ute Spiekerkötter, Department of Pediatrics, Adolescent Medicine and Neonatology at the University Children's Hospital in Freiburg, Germany. Associate Professor Rikke K. J. Olsen (main supervisor), Research Unit for Molecular Medicine, Aarhus University and Aarhus University Hospital.

Permission

By sending in this form:

- I hereby grant permission to publish the above Danish and English press releases.
- I confirm that I have been informed that any applicable inventions shall be treated confidentially and shall under no circumstances whatsoever be published, presented or mentioned prior to submission of a patent application, and that I have an obligation to inform my head of department and the university's Patents Committee if I believe I have made an invention in connection with my work. I also confirm that I am not aware that publication violates any other possible holders of a copyright.