

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: Hakim Ben Abdallah Email: hba@clin.au.dk Phone: 31146533

Department of: Clinical Medicine

Main supervisor: Claus Johansen

Title of dissertation: The role of heat shock protein 90 in inflammatory skin diseases

Date for defence: 21/05/24 at (time of day): 14:30 Place: Auditorium G206-142, Palle Juul-Jensens Boulevard 99, Aarhus University Hospital, 8200 Aarhus.

Press release (Danish)

Heat shock protein 90s rolle i inflammatoriske hudsygdomme

Heat shock protein 90 (HSP90) er muligvis et nyt potentielt angrebspunkt (drug target) for behandlingen af inflammatoriske hudsygdomme. Et nyt ph.d.-projekt fra Aarhus Universitet (Health) har undersøgt det terapeutiske potentiale af HSP90 hæmning i eksperimentelle laboratorieforsøg og i ét klinisk proof-of-concept studie. Projektet er gennemført af Hakim Ben Abdallah, der forsvarer det d. 21 maj, 2024.

På trods af den store udvikling af immunmodulerende medicin, så er der fortsat et behov for nye medicinske behandlinger af inflammatoriske hudsygdomme. HSP90 er et vigtigt protein, som er med til at folde og hermed sikre funktionen af flere hundrede klientproteiner. Nye studier tyder på, at hæmning af HSP90 kan medføre en reduktion af hudinflammation hos psoriasis og autoimmune bulløse hudsygdomme, men viden omkring dette er meget begrænset.

I dette ph.d.-projekt blev det terapeutiske potentiale af HSP90 hæmning for inflammatoriske hudsygdomme undersøgt i prækliniske modeller for hudinflammation (irritativt kontakteksem og atopisk eksem) samt i ét klinisk studie med hidrosadenitis suppurativa patienter. Resultaterne fra dette ph.d.-projekt er med til at bringe ny viden om HSP90 hæmning som en ny potentiel behandling af inflammatoriske hudsygdomme.

Forsvaret af ph.d.-projektet er offentligt og finder sted den d. 21 maj 2024 kl. 14.30 i auditorium G206-142, Palle Juul-Jensens Boulevard 99, Aarhus Universitetshospital, Aarhus. Titlen på projektet er "The role of heat shock protein 90 in inflammatory skin diseases". Yderligere oplysninger: Ph.d.-studerende Hakim Ben Abdallah, e-mail: hba@clin.au.dk, tlf. 31146533.

Bedømmelsesudvalg:

Tue Wenzel Kragstrup (chairman)
Lektor, læge, PhD
Institut for Biomedicin, Aarhus Universitet, Aarhus, Danmark

Brian Kirby,
Professor, læge, FRCPI
The Charles Centre, Afdeling for Hudsygdomme, St Vincent's Universitetshospital, Dublin, Irland

Enikö Sonkoly
Professor, læge, PhD
Afdeling for Hud- og Kønssygdomme, Uppsala Universitet, Uppsala, Sverige

Press release (English)

The role of heat shock protein 90 in inflammatory skin diseases

Heat shock protein 90 (HSP90) may be a novel drug target for treating inflammatory skin diseases. A recent PhD project from Aarhus University (Health) investigated the therapeutic potential of HSP90 inhibition in preclinical models of cutaneous inflammation and in a proof-of-concept clinical study. The project was carried out by Hakim Ben Abdallah, who is defending his dissertation on 21/05/2024.

Despite the advancements in immunomodulating drugs, novel therapeutics are warranted for inflammatory skin diseases. HSP90 is an abundantly expressed protein involved in the folding, and thereby promoting the activity, of hundreds of client proteins. Recent studies indicate that inhibition of HSP90 may alleviate skin inflammation in psoriasis and autoimmune bullous diseases, but the evidence is very limited.

In this PhD project, the feasibility of HSP90 inhibition as a novel therapeutic mode-of-action for inflammatory skin diseases was evaluated in preclinical models of cutaneous inflammation (i.e., irritant contact dermatitis and atopic dermatitis) and in a clinical study with hidradenitis suppurativa patients. The results from the PhD project advance our knowledge of the therapeutic potential of HSP90 inhibition in inflammatory skin diseases.

The defence is public and takes place on 21/05/2024 at 14:30 in Auditorium G206-142, Palle Juul-Jensens Boulevard 99, Aarhus University Hospital, Aarhus. The title of the project is "The role of heat shock protein 90 in inflammatory skin diseases". For more information, please contact PhD student Hakim Ben Abdallah, email: hba@clin.au.dk, Phone +45 3114 6533.

The assessment committee:

Tue Wenzel Kragstrup MD, PhD (chairman and moderator of the defence)

Associate Professor

Department of Biomedicine, Aarhus University, Aarhus, Denmark

Brian Kirby MD, FRCPI

Professor

The Charles Centre, Department of Dermatology, St Vincent's University Hospital, Dublin, Ireland

Enikö Sonkoly MD, PhD

Professor

Department of Medical Sciences, Dermatology and Venereology, Uppsala University, Uppsala, Sweden

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.