AARHUS UNIVERSITY

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: Aisha Rafique Email: araf@clin.au.dk Phone: +45 23829953

Department of: Clinical Medicine

Main supervisor: Professor Holger Jon Møller

Title of dissertation: Targeting Nanoparticle-Encapsulated Bioactive Vitamin D3 to Macrophages In vitro and In vivo for Anti-Inflammatory Therapy

Date for defence: 11-12-2018 at (time of day): 2 pm Place: Jeppe Vontillius Auditorium (Building 1252, room 310), Bartholins Allé, 8000 Aarhus C, Aarhus University

Press release (Danish)

Ph.d.-forsvar om targetering af aktiv-vitamin D3 indkapslet i nanopartikler til makrofager til formål for målrettet anti-inflammatorisk terapi.

Tirsdag den 11/12-2018 forsvarer Aisha Rafique, sin ph.d.-afhandling ved Health, Aarhus Universitet.

Aisha har forsket i at udnytte positive effekter af D-vitamin til mulig behandling af betændelses-sygdomme. Hun har indkapslet højdosis aktivt D-vitamin i nanopartikler for at målrette behandlingen til immunsystemet og dermed undgå uønskede bivirkninger.

Fokus for hendes ph.d.-projekt er at udvikle og afteste Vitamin-D nanopartikler der er målrettet mod en særlig immuncelle (makrofager) der spiller en vigtig rolle ved betændelses-sygdomme, fx kronisk leversygdom, kroniske tarmsygdomme og aterosklerose. Vitamin D er kendt for sine betændelses-hæmmende egenskaber og perspektivet i projektet er at opnå en efffektiv betændelseshæmning uden de bivirkninger der ses ved høj dosis af vitamin D.

Aisha vil fortælle om resultaterne til sit forsvar, som er offentlig og finder sted den 11. december 2018 kl. 14 i Jeppe Vontillius auditorium (bygning 1252, rum 310), Aarhus Universitet, Bartholins Allé 3, Århus C. Alle er velkomne. Efter forsvaret er Blodprøver og Biokemi, Århus Universitetshospital, vært ved en reception.

Titlen på projektet er ”Targeting Nanoparticle-Encapsulated Bioactive Vitamin D3 to Macrophages In vitro and In vivo for Anti-Inflammatory Therapy”.

Yderligere oplysninger: Ph.d.-studerende: Aisha Rafique, e-mail: araf@clin.au.dk, tlf. 23829953.

Bedømmelsesudvalg:
Professor Bente Lomholt Langdahl, Medicinsk Endokrinologisk Afdeling, Århus Universitets Hospital, Århus, Danmark (Forkvinde for bedømmelsesudvalget og moderator ved forsvaret)

Professor Ole Haagen Nielsen, Institut for Klinisk Medicin, Københavns Universitet, København, Danmark

Professor Dr. Holger Reichardt, Department of Cellular and Molecular Immunology, University Medical Centre Göttingen, Göttingen, Tyskland

Press release (English)

PhD defence about targeting bioactive vitamin D3 encapsulated nanoparticles to macrophages for anti-inflammatory therapy

On Tuesday December 11th 2018, Aisha Rafique will be defending her PhD dissertation at Health, Aarhus University.

Aisha's research has been to investigate the anti-inflammatory properties of bioactive vitamin D3 for the treatment of inflammatory disorders. She has developed a lipid nanoparticle system encapsulating bioactive vitamin D3 to target specific immune cells.

Her PhD is in the field of inflammation and the focus has been to develop and investigate the Vitamin D3 nanoparticle system targeted to key immune phagocytes (macrophages), that are implicated in inflammatory disorders such as chronic liver diseases, inflammatory bowel disease and arteriosclerosis autoimmune. Vitamin D is known for its anti-inflammatory properties and the perspective with the project is to effectively inhibit inflammation and to avoid adverse systemic side effects of the bioactive vitamin D3.

Aisha will present her results at the PhD defence. The defence is public and takes place on December 11th 2018 at 2 pm in Jeppe Vontillius auditorium (Building 1252, room 310), Aarhus University, Bartholins Allé 3, Aarhus C. Everyone are welcome. After the defence the Department of Clinical Biochemistry, Aarhus University Hospital, will host a small reception.

The title of the project is "Targeting Nanoparticle-Encapsulated Bioactive Vitamin D3 to Macrophages In vitro and In vivo for Anti-Inflammatory Therapy".

For more information, please contact PhD student Aisha Rafique, email: araf@clin.au.dk, Phone +45 23829953.

Assessment committee:
Professor Bente Lomholt Langdahl, Department of Endocrinology and Metabolism C, Aarhus University Hospital, Aarhus, Denmark (Chair of the assesment committee and moderator of the defence)
Professor Ole Haagen Nielsen, Department of Clinical Medicine, University of Copenhagen, Copenhagen, Denmark
Professor Dr. Holger Reichardt, Department of Cellular and Molecular Immunology, University Medical Centre Göttingen, Göttingen, Germany

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