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Sex differences between early- and late-onset Alzheimer's disease.

Wattmo, Carina

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LUND UNIVERSITY

PO Box 117
221 00 Lund
+46 46-222 00 00



The Kock Foundation International Symposium on Osteoarthritis & Alzheimer's Disease

September 14-16, 2022

Trelleborg, Sweden

Program

Day 1 Wednesday Sept 14

08:30-09:15 **Registration & coffee/tea**

09:15-09:30 **Welcome & introduction**

*Ingemar Petersson, Chair organizing committee
Kurt Dahlman, Greta & Johan Kock Foundations
Martin Englund, Chair scientific committee*

Session 1 **Keynote lectures**

Moderators: Elisabet Londos & Martin Englund

Aim: To provide new insights to provoke and/or make people reflect, targeted for a broad audience (talks are 20 min + 10 min discussion).

09:30-10:00 **A blood test for Alzheimer's disease – the role of plasma P-tau for diagnostics & drug development**

Associate Professor Sebastian Palmqvist, Lund University, Sweden



10:00-10:30 **Health inequalities: moving beyond descriptions**

Professor George Peat, Sheffield Hallam University, UK



10:30-11:00 **Coffee & tea (30 min)**

Session 2 **Epidemiology**

Moderators: George Peat & Malin Wennström

Aim: To provide insights in current Lund University research projects – an opportunity for constructive feedback to early career investigators and for cross-field and cross-disciplinary interactions (talks are 10 min + 10 min discussion).

11:00-11:20 **Early-stage knee OA classification criteria - updates from a multi-national project**

Armaghan Mahmoudian, Postdoc



11:20-11:40 **Sex differences between early- and late-onset Alzheimer's disease**

Carina Wattmo, Postdoc





11:40-12:00 **Multimorbidity in people with OA**

Andréa Dell'Isola, Postdoc



12:00-12:20 **Development of a Swedish anticholinergic burden scale**

Tanja Rube, PhD student



12:20-13:30 **Lunch (at venue)**

Session 3 Imaging biomarkers

Moderators: Ruben Smith & Carl-Johan Tiderius

Aim: To provide insights in current Lund University research projects – an opportunity for constructive feedback to early career investigators and for cross-field and cross-disciplinary interactions (talks are 10 min + 10 min discussion).

13:30-13:50 **Measures of cortical microstructure are linked to amyloid pathology in Alzheimer's disease**

Nicola Spotorno, Assistant researcher



13:50-14:10 **Exploratory neutron tomography to improve understanding of articular cartilage degeneration**

Tobias Wrannerfors, PhD student



14:10-14:30 **Is MRI still a relevant biomarker endpoint in clinical trials of Alzheimer's disease?**

Nicholas Cullen, PhD student



14:30-14:50 **Synchrotron phase contrast X-ray tomography to better understand how OA affect knee soft tissues**

Maria Pierantoni, Postdoc



15:00-15:30 **Coffee & tea (30 min)**



"Trelleborgen" - a reconstructed viking castle with original remains dated to be from year 974-980



Session 4 Computational modelling & biology

Moderators: Naserin Ali & Tomas Deierborg

Aim: To provide insights in current Lund University research projects – an opportunity for constructive feedback to early career investigators and for cross-field and cross-disciplinary interactions (talks are 10 min + 10 min discussion).

15:30-15:50 **Computational modeling framework for predicting subject-specific knee OA progression**

Gustavo Alejandro Orozco, Postdoc



15:50-16:10 **The role of Alpha-amylase in Alzheimer's Disease**

Elin Byman Shatri, Postdoc



16:10-16:30 **Degradomics of human synovial fluid in knee OA**

Martin Rydén, PhD student



16:30-16:50 **Cerebrospinal fluid A β 42 and A β 40 and their relation to cerebral A β pathology in the 5xFAD mouse model of Alzheimer's disease**

Emelie Andersson, PhD student



17:00-17:45 **Check in at hotels**

18:00-20:00 **Dinner (at venue)**

Session 5 Lund University profile area

Moderators: Ingemar Petersson & Tomas Deierborg

Aim: To provide insights and latest updates of the new Lund University profile area in ageing of the brain and the musculoskeletal system (talk is 20 min + 20 min discussion).

20:00-20:40 **Proactive ageing – Brain and Movement**

Professor Susanne Iwarsson, Lund University



End of Day 1



Runestone outside "Trelleborgen"



Day 2 Thursday Sept 15

Session 6 Keynote lectures

Moderators: Patrik Önnerfjord & Alexa Pichet Binette

Aim: To provide new insights to provoke and/or make people reflect, targeted for a broad audience (talks are 20 min + 10 min discussion).

09:30-10:00 **I love collagens**

Morten Karsdal, CEO Nordic Biosciences



10:00-10:30 **From mutation to a drug candidate for Alzheimer's disease**

Professor Lars Lannfelt, Uppsala University, Sweden



10:30-11:00 **Coffee & tea (30 min)**

Session 7 Biomarkers

Moderators: André Struglics & Shorena Janelidze

Aim: To provide insights in current Lund University research projects – an opportunity for constructive feedback to early career investigators and for cross-field and cross-disciplinary interactions (talks are 10 min + 10 min discussion).

11:00-11:20 **New biomarkers for Alzheimer's disease: going beyond A β and tau**

Claudia Cicognola, Assistant researcher



11:20-11:40 **Associations between physical activity, joint function and molecular biomarkers in working age individuals with hip and knee OA**

Elin Östlind, Postdoc



11:40-12:00 **Links between soluble p-tau, tau aggregation rates and cognitive decline across the Alzheimer's disease continuum**

Alexa Pichet Binette, Postdoc



12:00-12:20 **Proteomics; early detection of OA**

Neserin Ali, Assistant researcher



12:20-13:30 **Lunch (at venue)**



Session 8 Keynote lecture + Treatments & biology I

Moderators: Eva Ekvall Hansson & Carina Wattmo

Aim: Keynote lecture to provide new insights to provoke and/or make people reflect (20 min + 10 min discussion) + talks to provide insights in current Lund University research projects – an opportunity for constructive feedback to early career investigators and for cross-field and cross-disciplinary interactions (talks are 10 min + 10 min discussion).

13:30-14:00 Biological subtypes and Alzheimer's disease

Associate Professor Daniel Ferreira, Karolinska Institutet, Sweden



14:00-14:20 Train the Brain: Physical therapist and patient perceptions of psychological training integrated into physical rehabilitation

Niklas Cederström, Postdoc



14:20-14:40 Opioid use prior to total knee replacement: Comparative analysis of trends in England and Sweden

Clara Hellberg, PhD student



14:40-15:00 The heart in dementia with Lewy bodies

Isak Heyman, PhD student



15:00-15:30 Group photo & coffee/tea (30 min)

Session 9 Communication, rehab & adherence

Moderators: Eva Ageberg & Claudia Cicognola

Aim: To provide insights in current Lund University research projects – an opportunity for constructive feedback to early career investigators and for cross-field and cross-disciplinary interactions (talks are 10 min + 10 min discussion).

15:30-15:50 Enablement and empowerment among patients participating in a supported osteoarthritis self-management program

Karin Sturesdotter Åkesson, Postdoc



15:50-16:10 The cognitive assessment in foreign born

Rozita Torkpoor, PhD student



16:10-16:30 Adherence to exercise in OA: a complex yet poorly understood phenomenon

Simone Battista, PhD student



16:30-18:15 Break

18:15 Meet at venue for transport to Jordberga Castle
NB! sharp bus departure at 6:30 pm

19:30 Conference dinner (business casual)

00:00 Buses return to hotels/end of day 2



Day 3 Friday Sept 16

Hotel check out & bring luggage to the venue (Församlingshemmet)

10:00-10:30 **Coffee & tea (30 min)**

Session 10 Keynote lectures

Moderators: Andrea Dell'Isola & Sebastian Palmqvist

Aim: To provide new insights to provoke and/or make people reflect, targeted for a broad audience (talks are 20 min + 10 min discussion).

10:30-11:00 **Mitigating osteoarthritis by cannabinoid-inspired compounds**

Associate Professor Mona Dvir-Ginzberg, The Hebrew University of Jerusalem



11:00-11:30 **Bioactive lipid mediators resolve inflammation: hypothesis of their role in Alzheimer's disease**

Professor Marianne Schultzberg, Karolinska Institutet, Stockholm



11:30-12:00 **Exercise is great for you – but why?**

Professor Jonas Bloch Thorlund, University of Southern Denmark



12:00-13:00 **Lunch (at venue)**





Session 11 Treatments & biology II

Moderators: Jonas Bloch Thorlund & Gunnar Gouras

Aim: To provide insights in current Lund University research projects – an opportunity for constructive feedback to early career investigators and for cross-field and cross-disciplinary interactions (talks are 10 min + 10 min discussion).

13:00-13:20 **Comparison of face-to-face and digital delivery of an OA treatment program for hip or knee OA: an observational study**

Thérèse Jönsson, Postdoc



13:20-13:40 **Understanding the link between plasma and brain p-tau in Alzheimer's disease**

Nina Schultz, Postdoc



13:40-14:00 **HIPSTER: Patients with longstanding hip and groin pain referred to orthopedic care: effectiveness of education and exercise therapy**

August Estberger, PhD student



14:00-14:30 **Concluding remarks & awards**

Ingemar Petersson, Chair organizing committee
Gunnar Gouras, Chair Awards
Martin Englund, Chair scientific committee



14:30 **Afternoon refreshments & Adjourn**



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