

PROGRAMME



20th ANNUAL SCANDINAVIAN ATHEROSCLEROSIS CONFERENCE International Meeting

April 7 – 10, 2014

Krogerup Højskole, Krogerupvej 13, DK-3050 Humlebæk, Denmark

(Only during meeting: Phone: +45 4919 0380; E-mail: kontoret@krogerup.dk)

SCIENTIFIC COMMITTEE

Katariina Öörni (Finland), Tanja X Pedersen (Denmark),
Ingunn Narverud (Norway), Louise Hornstrup (Denmark),
Stefan K Nilsson (Sweden), Uwe Tietge (The Netherlands),
Knut E Berge (Norway), Ilze Bot (The Netherlands)

OFFICE

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Organized by **SCANDINAVIAN SOCIETY FOR ATHEROSCLEROSIS RESEARCH:**

Paolo Parini (Chairperson)
Christina Christoffersen (Secretary and Treasurer)
Marianne Benn
Tuva Dahl
Vilmundur Gudnason
Alexandra Krettek
Anna-Liisa Levonen
Vesa Olkkonen
Trine Ranheim
Gunnar Sigurdsson

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Monday, April 7, 2014

16.00 – 18.00 Arrival, registration and coffee (dining room until 17.45)

18.00 – 19.30 Dinner

19.30 – 19.35 **Paolo Parini (Sweden)**
Welcome

THE 2014 NIKKILÄ MEMORIAL LECTURES

19.35 – 19.40 Introduction of the 2014 Nikkilä Lecturer
Paolo Parini (Sweden)

19.40 – 20.25 **2014 Nikkilä Lecture**
Non-cholesterol sterols and their effector pathways
Vesa Oikkinen (Finland)

20.25 – 20.45 Discussion

20.45 - Pub will be open

Tuesday, April 8, 2014

08.00 – 09.00 Breakfast

Session I. INFLAMMATION AND VASCULAR BIOLOGY

Organized and chaired by Katariina Öörni (Finland) and Tanja X Pedersen (Denmark)

09.00 – 09.25 *Age-related aortic stiffening and endothelial dysfunction*
Cynthia Reinhart-King (USA)

09.25 – 09.30 Discussion

09.30 – 09.45 *Elevated lipoprotein(a) causes aortic valve stenosis and myocardial infarction without inflammation: a study of 100,578 individuals from the general population*
Børge Nordestgaard (Denmark)

09.45 – 10.00 *Apolipoprotein M and sphingosine-1-phosphate decrease during sepsis*
Cecilia Frej (Sweden)

10.00 – 10.15 *Apolipoprotein M-deficiency leads to increased S1P-dependent vascular permeability*
Pernille Möller Christensen (Denmark)

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- 10.15 – 10.30 *Stress-induced mast cell activation contributes to atherosclerotic plaque destabilization*
Max Lagraauw (The Netherlands)
- 10.30 – 11.15 Coffee, posters and exhibitions
- 11.15 – 11.40 *Macrophage phenotype regulation*
Menno de Winther (The Netherlands)
- 11.40 – 11.45 Discussion
- 11.45 – 12.00 *Macrophages caspase-1/11 deficiency protects against atherosclerosis development in LDL receptor knockout mice*
Mike Jeurissen (The Netherlands)
- 12.00 – 12.15 *P13Kgamma mediates Th1 responses in arterial injury-induced intimal hyperplasia*
Natalia Smirnova (France)
- 12.15 – 12.30 *Elevated rheumatoid factor and deep venous thrombosis*
Christine L M Olesen (Denmark)

Session II. CARDIOVASCULAR DISEASE

Organized and chaired by Ingunn Narverud (Norway) and Louise Hornstrup (Denmark)

- 12.30 – 12.55 *Chemokines and rock'n'roll in atherogenesis*
Bente Halvorsen (Norway)
- 12.55 – 13.00 Discussion
- 13.00 – 14.00 Lunch
- 14.00 – 15.00 **General meeting of the *Scandinavian Society for Atherosclerosis Research***
Open for all participants, decision on next year's topics and chairpersons

Afternoon free for the Louisiana Museum of Modern Art (5 min walk), beach (5 min walk), Kronborg, the castle of Hamlet (12 min by train) or downtown Copenhagen (50 min by train)

- 16.30 – 18.00 **The traditional soccer match between countries**
Remember to bring sports clothing and suitable footwear
- 18.00 – 19.00 Dinner

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Session II. CARDIOVASCULAR DISEASE - continued

Organized and chaired by Ingunn Narverud (Norway) and Louise Hornstrup (Denmark)

- 19.00 – 19.25 *How to save lives in children with familial hypercholesterolemia*
Albert Wiegman (The Netherlands)
- 19.25 – 19.30 Discussion
- 19.30 – 19.45 *Pro-thrombotic environment in atherosclerotic carotid plaques*
Benedicte Stavik (Norway)
- 19.45 – 20.00 *14q32 MicroRNA inhibition reduces atherosclerotic lesion formation and increases plaque stability*
Anouk Wezel (The Netherlands)
- 20.00 – 20.15 *Endogenous androgens protect female mice against atherosclerosis*
Åsa Tivesten (Sweden)
- 20.15 – 20.45 Coffee, posters and exhibitions.
- 20.45 – 21.00 *Loss-of-function mutations in APOC3 and risk of ischemic vascular disease*
Anders Berg Jørgensen (Denmark)
- 21.00 – 21.15 *Remnant cholesterol, low-density lipoprotein cholesterol, and blood pressure as mediators from obesity to ischemic heart disease*
Anette Varbo (Denmark)
- 21.15 – 21.30 *Genetically reduced 25-hydroxyvitamin D and risk of ischemic heart disease and myocardial infarction. A Mendelian randomized study*
Peter Brøndum Jacobsen (Denmark)
- 21.30 – Pub will be open

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Wednesday, April 9, 2014

08.00 – 09.00 Breakfast.

Session III. LIPOPROTEINS AND LIPID TRANSPORT

Organized and chaired by Stefan K. Nilsson (Sweden) and Uwe Tietge (The Netherlands)

09.00 – 09.25 *Role of human adipose tissue for dyslipidemia - novel findings*
Peter Arner (Sweden)

09.25 – 09.30 Discussion

09.30 – 09.45 *Metabolic characterization of common gene regulatory protein in mice*
Pirkka-Pekka Laurila (Finland)

09.45 – 10.00 *Activation of brown adipose tissue reduces atherosclerosis development*
Patrick Rensen (The Netherlands)

10.00 – 10.15 *Brown adipose tissue activation alters the postprandial lipid- and systemic immune cell response in humans*
Stefan K Nilsson (Sweden)

10.15 – 10.30 *ApoA-V deficiency in mice disrupts LPL regulation in adipose tissue and decreases the amount of capillary quick release bound LPL*
Niklas Löfgren (Sweden)

10.30 – 11.15 Coffee, posters and exhibitions

11.15 – 11.40 *Sortilin, the unusual suspect in cardiovascular disease*
Mads Fuglsang Kjølby (Denmark)

11.40 – 11.45 Discussion

11.45 – 12.00 *Contrasting metabolic responses to chronic and acute resin treatment in humans highlights the importance of preserving the bile acid pool*
Mats Rudling (Sweden)

12.00 – 12.15 *HDL cholesterol efflux capacity is not compromised in chronic kidney disease*
Matteo Pedrelli (Sweden)

12.15 – 12.30 *Increased lipid oxidation and decreased lipid storage in myotubes from Plin2 knockout mice*
Eili Tranheim Kase (Norway)

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12.30 – 12.45 *Insulin sensitizer rosiglitazone reduces hepatic angiotensin-like 3(Angptl3) and VLDL synthesis and secretion*
Anna Tikka (Finland)

12.45 – 14.00 Lunch

Session IV. OTHER TOPICS

Organized and chaired by Knut E. Berge (Norway) and Ilze Bot (The Netherlands)

14.00 – 14.25 *Sterol and nonsterol signals regulating degradation of HMG CoA reductase*
Russell DeBose-Boyd (USA)

14.25 – 14.30 Discussion

14.30 – 14.45 *Genetically reduced high-density lipoprotein cholesterol and risk of type 2 diabetes: a Mendelian randomization study*
Ruth Frikke-Schmidt (Denmark)

14.45 – 15.00 *Importance of non-synonymous genetic variation in WRN on risk of ischemic vascular disease and mortality in the general population*
Mette Christoffersen (Denmark)

15.00 – 15.15 *Increased tobacco consumption lowers body weight: a Mendelian randomisation study*
Ulrik C Winsløw (Denmark)

15.15 – 15.30 *Uremia mediates de-differentiation of smooth muscle cells in the arterial wall*
Marie Madsen (Denmark)

15.30 – 16.15 Coffee, posters and exhibitions

16.15 – 16.40 *Immune-modulatory therapies and atherosclerosis*
Gunilla Nordin Fredrikson (Sweden)

16.40 – 16.45 Discussion

16.45 – 17.00 *An acute bout of exercise increases serum and PBMC gene expression of inflammatory markers in healthy young men*
Kirsten Holven (Norway)

17.00 – 17.15 *Cholesterol exposure during the suckling period programs cholesterol metabolism in adult mice*
Lidiya Dimova (The Netherlands)

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- 17:15 – 17:30 *Brown adipose tissue volume is markedly lower in healthy lean adolescents from South Asian compared to white Caucasian origin*
Mariëtte Boon (The Netherlands)
- 17.30 – 19.00 Time free
- 19.00 – 19.30 **Cocktail**
- 19.30 – **Banquet and dancing**

Thursday, April 10, 2014

- 08.30 – 10.00 Breakfast
- 10.00 Departure

Have a nice trip back home!!!

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Poster Presentations

Posters are displayed in the coffee room (Lille Sal). Posters should be mounted before 9.00 and removed after the last poster session of the day.

Each poster can be mounted on any of the boards – (first come - first served basis). Pins will be provided.

Posters should be no more than 80 cm wide and 120 cm high.

Tuesday, April 8, 2014

Session I. INFLAMMATION AND VASCULAR BIOLOGY

Organized and chaired by Katariina Öörni (Finland) and Tanja X Pedersen (Denmark)

Discrepancy between in vitro and in vivo atherogenic macrophage phenotypes

Line Stattau Bisgaard (Denmark)

Lipoprotein(a) levels are associated with aortic valve calcification in asymptomatic patients with familial hypercholesterolemia

Sven Bos (The Netherlands)

A possible role for IL-27 in carotid atherosclerosis

Ida Gregersen (Norway)

Hyaluronic acid induce atherosclerosis development through increased vessel stiffness and endothelial dysfunction

Karen Axelgaard Lorentzen (Denmark)

Endothelial uptake of platelet microarticles is dependent on Tyro3 and Mer

Kaisa Otteby (Sweden)

Expression of inflammasomes in healthy and atherosclerotic human coronary arteries

Kristina Rajamäki (Finland)

Identify the adaptive immune pathways unique to atherosclerosis in the context of dyslipidemia

Thomas van der Heijden (The Netherlands)

Session II. CARDIOVASCULAR DISEASE

Organized and chaired by Ingunn Narverud (Norway) and Louise Hornstrup (Denmark)

Functional analysis of the BCAR1-CFDP1-TMEM170A locus associated with carotid intima-media thickness and plaque

Freya Boardman-Pretty (UK)

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Poster Presentations

High prevalence of behavioral cardiovascular risk factors in a Nepalese community undergoing socio-demographic transition

Alexandra Krettek (Sweden)

Effects of LPA₁-receptor antagonism on atherosclerosis

Eva Kritikou (The Netherlands)

Effect of daily intake of 150 g fatty or lean fish for 15 days on inflammatory markers in healthy humans

Johanne K Ledang (Norway)

Risk of cardiovascular disease among taxi drivers in Oslo. A nine year follow-up study

Katharina M Lund (Norway)

Treatment of a compound heterozygous familial hypercholesterolemia patient with Lomitapide

Monique Mulder (The Netherlands)

Effector and regulatory blood lymphocyte subpopulations in carotid atherosclerosis

Ekaterina Pylaeva (Russia)

Deficiency of a global gene regulatory protein in bone marrow-derived cells increases atherosclerosis in LDL receptor knockout mice

Baoyan Ren (The Netherlands)

Cardiovascular disease risk in women with primary ovarian insufficiency: a systematic review and meta-analysis of prospective studies

Jeanine Roeters van Lennep (The Netherlands)

NLRP3 inflammasome promote myocardial remodeling during diet-induced obesity

Marina Sokolova (Norway)

Relation between diet and lipid in children with familial hypercholesterolemia

Kristin Torvik (Norway)

Circulating immunoglobulins are not associated with intraplaque mast cell number and other vulnerable plaque characteristics in patients with carotid artery stenosis

Daniël van der Velden (The Netherlands)

Increased atherosclerotic plaque formation in apolipoprotein E-deficient mice lacking monoacylglycerol lipase

Nemanja Vujic (Austria)

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Poster Presentations

Wednesday, April 9, 2014

Session III. LIPOPROTEINS AND LIPID TRANSPORT

Organized and chaired by Stefan K. Nilsson (Sweden) and Uwe Tietge (The Netherlands)

Identification of CD68 as a potential regulator of LDLR levels

Jamie Cameron (Norway)

Inhibition of NPC1L1 increases transintestinal cholesterol excretion (TICE) dependent on ABCG5/G8 but independent of plasma ApoB-containing lipoproteins

Jan Freark de Boer (The Netherlands)

IDOL N342S gene variant is not associated with plasma lipid profile and pre-clinical carotid atherosclerosis in an Italian free living population

Ashish Dhyani (Italy)

Stimulation of Lipoprotein into brown and white adipose tissues by beta3-adrenergic receptor signaling

Markus Heine (Germany)

Brown adipose tissue takes up fatty acids by selective delipidation of lipoproteins rather than by whole particle

Geerte Hoeke (The Netherlands)

Elevated lipoprotein(a) levels and increased risk of heart failure in the general population

Pia R Kamstrup (Denmark)

Apolipoprotein A-I mimetic peptide 4F blocks sphingomyelinase-induced LDL aggregation; interaction of the amphipathic helical peptide with LDL particles

Su Nguyen (Finland)

Evaluation of cholesterol uptake activity of bifidobacteria and lactobacilli strains

Antonio Piemontese (Italy)

Increased lipid oxidation and decreased lipid storage in myotubes from Plin2 knockout mice

Arild Christian Rustan (Norway)

The susceptibility of LDL for aggregation depends on LDL lipid composition

Maija Ruuth (Finland)

The anti-inflammatory drug salsalate attenuates obesity and dyslipidemia by activating brown adipose tissue

Andrea van Dam (The Netherlands)

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Poster Presentations

Effect of a high-fat meal on Lp(a) size and density in subjects with high Lp(a)

Adrie Verhoeven (The Netherlands)

Session IV. OTHER TOPICS

Organized and chaired by Knut E. Berge (Norway) and Ilze Bot (The Netherlands)

Effect of ANP on lipolysis in the mouse heart

Emil Daniel Bartels (Denmark)

Proteomic studies of the protein CD36 in blood platelets of selected laboratory rat strains

Petr Svoboda (Czech Republic)

Circadian rhythm modulates body fat mass through brown adipose tissue activity

Rosa van den Berg (The Netherlands)