

PROGRAMME



21st ANNUAL SCANDINAVIAN ATHEROSCLEROSIS CONFERENCE International Meeting

April 13 – 16, 2015

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

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

SCIENTIFIC COMMITTEE

Bente Halvorsen (Norway), Menno de Winther (The Netherlands),
Åsa Tivesten (Sweden), Anders Berg Jørgensen (Denmark),
Mette Christoffersen (Denmark), Matti Jauhiainen (Finland),
Emil Daniel Bartels (Denmark), Arild Christian Rustan (Norway)

OFFICE

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Organized by

SCANDINAVIAN SOCIETY FOR ATHEROSCLEROSIS RESEARCH:

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Christina Christoffersen (Secretary and Treasurer)
Marianne Benn
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Alexandra Krettek
Anna-Liisa Levonen
Vesa Olkkonen
Trine Ranheim
Gunnar Sigurdsson

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Monday, April 13, 2015

- 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 2015 NIKKILÄ MEMORIAL LECTURES

- 19.35 – 19.40 Introduction of the 2015 Nikkilä Lecturer
Alexandra Krettek (Sweden)
- 19.40 – 20.25 **2015 Nikkilä Lecture**
Characterization of lipoproteins in the arterial wall
Lars Bo Nielsen (Denmark)
- 20.25 – 20.45 Discussion
- 20.45 - Pub will be open

Tuesday, April 14, 2015

- 08.00 – 09.00 Breakfast

Session I. INFLAMMATION AND VASCULAR BIOLOGY

Organized and chaired by Bente Halvorsen (Norway) and Menno de Winther (The Netherlands)

- 09.00 – 09.25 The role of neutrophils in atherosclerosis
Oliver Söhnlein (Germany)
- 09.25 – 09.30 Discussion
- 09.30 – 09.45 Lipoprotein(a) induces responsive monocytes via epigenic reprogramming and increases arterial wall inflammation in humans
Bekkering Siroon (The Netherlands)
- 09.45 – 10.00 The differentiation of CD4 naive T cells toward effector subsets is affected by apolipoprotein E in both mice and humans
Fabrizia Bonacina (Italy)

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- 10.00 – 10.15 Apolipoprotein M and sphingosine 1-phosphate decrease in human sepsis and in a non-human-primate sepsis model
Cecilia Frej (*Sweden*)
- 10.15 – 10.30 Absence of NLRP3 improves survival after a myocardial infarction in male mice
Mieke Louwe (*Norway*)
- 10.30 – 11.15 Coffee, posters and exhibitions
- 11.15 – 11.40 Circulating cells in cardiovascular disease
Harry Björkbacka (*Sweden*)
- 11.40 – 11.45 Discussion
- 11.45 – 12.00 Fibronectin Extra domain A stabilizes atherosclerotic plaques in apolipoprotein E and in LDL-receptor deficient mice
Giuseppe Danilo Norata (*Italy*)
- 12.00 – 12.15 Testosterone regulates thymopoiesis and atherosclerosis by targeting thymic epithelial cells
Åsa Tivesten (*Sweden*)
- 12.15 – 12.30 Targeting epigenetics to improve atherogenic macrophage functions and disease outcome
Jan van den Bossche (*The Netherlands*)

Session II. CARDIOVASCULAR DISEASE

Organized and chaired by Åsa Tivesten (Sweden) and Anders Berg Jørgensen (Denmark)

- 12.30 – 12.55 The Swedish CARDioPulmonary bioImage Study (SCAPIS) – design and some preliminary results
Göran Bergström (*Sweden*)
- 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

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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

Session II. CARDIOVASCULAR DISEASE – continued

Organized and chaired by Åsa Tivesten (Sweden) and Anders Berg Jørgensen (Denmark)

19.00 – 19.25 Genetic and endocrine disturbances in cardiovascular disease
Olle Melander (Sweden)

19.25 – 19.30 Discussion

19.30 – 19.45 Extreme nonfasting remnant cholesterol versus extreme low-density lipoprotein cholesterol as contributors of cardiovascular disease and all-cause mortality in 90,000 individuals from the general population
Børge Grønne Nordestgaard (Denmark)

19.45 – 20.00 Macrophage cholesterol efflux to apoB-depleted plasma is determined by HDL cholesterol but not by glucose tolerance status: the CODAM study
Uwe Tietge (The Netherlands)

20.00 – 20.15 Translation of a knockout mouse model to humans
Pirkka-Pekka Laurila (Finland)

20.15 – 20.45 Coffee, posters and exhibitions.

20.45 – 21.00 Metabolite profiling and cardiovascular event risk: A prospective study of three population-based cohorts
Peter Würtz (Finland)

21.00 – 21.15 In vivo high resolution isotropic 3D MRI of coronary atherosclerosis in hypertensive hypercholesterolemic minipigs
Rozh Al-Mashadi (Denmark)

21.15 – 21.30 PROTEOGLYCAN 4: A potential novel target in atherosclerosis
Joya Nahon (The Netherlands)

21.30 – Pub will be open

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Wednesday, April 15, 2015

08.00 – 09.00 Breakfast.

Session III. LIPOPROTEINS AND LIPID TRANSPORT

Organized and chaired by Mette Christoffersen (Denmark) and Matti Jauhiainen (Finland)

- 09.00 – 09.25 Regulation of plasma lipoprotein metabolism by Angiopoietin like proteins
Sander Kersten (*The Netherlands*)
- 09.25 – 09.30 Discussion
- 09.30 – 09.45 Postprandial response in lipid metabolism in human subjects with ANGPTL3 deficiency
Matti Jauhiainen (*Finland*)
- 09.45 – 10.00 The TMAO generating enzyme flavin monooxygenase 3 (FMO3) is a novel regulator of cholesterol balance
Mark J Brown (*USA*)
- 10.00 – 10.15 Glucocorticoid-mediated immunosuppression underlies the cholestasis-associated atherosclerosis resistance
Menno Hoekstra (*The Netherlands*)
- 10.15 – 10.30 A fast semi-quantitative LC-MS method for measurement of intact apolipoprotein A-I reveals novel proteoforms in serum
Mats Gåfvels (*Sweden*)
- 10.30 – 11.15 **Coffee, posters and exhibitions**
- 11.15 – 11.40 PCSK9 - the Usain Bolt of drug developments
Bertrand Cariou (*France*)
- 11.40 – 11.45 Discussion
- 11.45 – 12.00 Plasma levels of apolipoprotein E and risk of ischemic heart disease in the general population
Katrine Laura Rasmussen (*Denmark*)
- 12.00 – 12.15 Adaptor protein PID1 is a molecular switch for LRP1 function in liver and adipose tissue
Kirstin Albers (*Germany*)

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- 12.15 – 12.30 Metformin lowers plasma triglycerides by promoting VLDL-triglyceride clearance by brown adipose tissue in mice
Janine Geerling (*The Netherlands*)
- 12.30 – 12.45 Brown fat activation reduces hypercholesterolemia and protects from atherosclerosis development depending on a functional apoE-LDL receptor clearance pathway
Patrick Rensen (*The Netherlands*)
- 12.45 – 14.00 Lunch

Session IV. OTHER TOPICS

Organized and chaired by Emil Daniel Bartels (Denmark) and Arild Christian Rustan (Norway)

- 14.00 – 14.25 Effects of regular exercise on cardiovascular disease
Kristin Eckardt (Norway)
- 14.25 – 14.30 Discussion
- 14.30 – 14.45 Long term survival in the Oslo diet and antismoking trial (1972/73)
Kjetil Retterstøl (*Norway*)
- 14.45 – 15.00 Effects of training in vivo is preserved in cultured human myotubes
Arild Christian Rustan (*Norway*)
- 15.00 – 15.15 HDL associated Apolipoprotein M limits endothelial inflammation via sphingosine 1-phosphate
Mario Ruiz (*Sweden*)
- 15.15 – 15.30 Effect of psoriasis-like skin lesions on systematic inflammation and atherosclerosis in hypercholesterolemic apolipoprotein E knock-out mice
Marie Madsen (*Denmark*)
- 15.30 – 16.15 **Coffee, posters and exhibitions**
- 16.15 – 16.40 Brown adipose tissue: counteracting the metabolic syndrome
Jan Nedergaard (*Sweden*)
- 16.40 – 16.45 Discussion

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- 16.45 – 17.00 Renovascular hypertension does not induce persistent changes in atherosclerosis susceptibility in mice
Martin Bødker Mortensen (*Denmark*)
- 17.00 – 17.15 Mechanisms involved in extracellular matrix remodelling and arterial stiffness induced by Hyaluronan overexpression
Karen Axelgaard Lorentzen (*Denmark*)
- 17:15 – 17:30 NLRP3 inflammasome promote myocardial remodelling during diet-induced obesity
Marina Sokolova (*Norway*)
- 17.30 – 19.00 Time free
- 19.00 – 19.30 **Cocktail**
- 19.30 – **Banquet and dancing**

Thursday, April 16, 2015

- 08.30 – 10.00 Breakfast
- 10.00 Departure

Have a nice trip back home!!!

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Poster Presentations

Tuesday, April 14, 2015

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.

Session I. INFLAMMATION AND VASCULAR BIOLOGY

Organized and chaired by Bente Halvorsen (Norway) and Menno de Winther (The Netherlands)

Hck/Fgr kinase deficiency reduces plaque growth and stability by blunting monocyte recruitment and intraplaque motility

Erik Biessen (The Netherlands)

PBMC whole genome transcriptional profiling of children with FH

Jacob Juel Christensen (Norway)

Mast cell mediated neutrophil influx enhances plaque progression

Max Lagraauw (The Netherlands)

Circulating lymphocyte subpopulations in atherosclerosis

Ekaterina Pylaeva (Russia)

The NLRP3 inflammation mediates oxidative stress-induced pancreatic islet dysfunction in vivo and in vitro

Trine Ranheim (Norway)

Dietary supplementation with cold-pressed whale oil (CWO) reduces atherosclerotic plaque formation in the aortic arch of female apolipoprotein E-deficient mice fed with a high-fat Western type diet

Mari Walquist (Norway)

The RMB-ApoE^{-/-} mouse: A novel mouse model to study the mast cell in atherosclerosis

Daniel van der Welden (Denmark)

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Poster Presentations

Session II. CARDIOVASCULAR DISEASE

Organized and chaired by Åsa Tivesten (Sweden) and Anders Berg Jørgensen (Denmark)

Microvesicles as biomarkers of prevalent coronary artery disease in familial hypercholesterolemia

Sven Bos (The Netherlands)

Systems genetics approach to atherosclerosis and associated risk factors

Inga R Helgadóttir (Iceland)

Maternal inheritance does not predict cholesterol levels in non-statin treated children with familial hypercholesterolemia

Kirsten Holven (Norway)

Genetically high plasma vitamin C, intake of fruit and vegetables and risk of ischemic heart disease and all-cause mortality: a Mendelian randomization study

Camilla Jannie Kobylecki (Denmark)

Patients with familial hyper-cholesterolemia are characterized by presence of cardiovascular disease at time of death

Henriette Walaas Krogh (Norway)

Effect of replacing dietary saturated fat with polyunsaturated fat on inflammatory markers in healthy subjects with moderate hypercholesterolemia

Lena Leder (Norway)

Effects of low-carbohydrate diets versus low-fat diets on weight loss and cardiovascular risk factors: A meta-analysis of randomized controlled trials

Nadia Mauland Mansoor (Norway)

Silencing antithrombin and protein C in ApoE knockout mice causes severe coagulopathy but not atherothrombosis

Amber Ouweneel (The Netherlands)

Mortality among patients with familial hypercholesterolemia: A registry-based study in Norway, 1992-2010

Kjetil Retterstøl (Norway)

Familial hypercholesterolemia identification in children; a tool to assess the success of a nationwide FH cascade program

Jeanine Roeters van Lennep (The Netherlands)

Synergistic effect between contemporaneous carrier-state of polymorphic variants of E-selectin, MTHFR and PAI-I and hypercholesterolemia in determining the risk of coronary artery disease

Beata Sarecka-Hujar (Poland)

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Session III. LIPOPROTEINS AND LIPID TRANSPORT

Organized and chaired by Mette Christoffersen (Denmark) and Matti Jauhiainen (Finland)

The Predictive Value of the Antioxidative Function of HDL for Cardiovascular Disease and Graft Failure in Renal Transplant Recipients

Sanam Ebtehaj (The Netherlands)

Insulin dependent triglyceride-rich lipoproteins uptake into brown adipose tissue

Markus Heine (Germany)

Evidence for two distinct binding sites for lipoprotein lipase on glycosylphosphatidylinositol-anchored high density lipoprotein-binding protein 1

Oleg Kovrov (Sweden)

Characterization of the extracellular lipid particles in atherosclerotic carotid artery intima

Satu Lehti (Finland)

TM6SF2 is a regulator of liver fat metabolism influencing triglyceride secretion and hepatic lipid droplet content

Hovsep Mahdessian (Sweden)

Lipoprotein lipase deficiency, hypertriglyceridemia, and insulin resistance

Sofia Mikkelsen Berg (Denmark)

Regulation of angiopoietin-like proteins (ANGPTLs) 3 and 8 by insulin

Nidhina Haridas Pachakkil Antharaparambath (Finland)

Extract from *Silybum marianum* increases serum HDL cholesterol and reduces ectopic lipid accumulation in hereditary hypertriglyceridemic rats

Zuzana Papackova (Czech Republic)

LDL aggregation - A novel biomarker for atherosclerosis

Maija Ruuth (Finland)

The nitric oxide precursors L-arginine and nitrite stimulate lipolysis in brown adipocytes

Maaïke Schilperoort (The Netherlands)

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Functional mutation in ABCA1, plasma levels of apolipoprotein E and risk of Alzheimer disease and cerebrovascular disease

Liv Tybjærg Nordestgaard (Denmark)

Poster Presentations

Absence of PLTP function in SR-BI knockout mice shifts lipids from HDL to VLDL/LDL and reduces

Ronald J van der Sluis (The Netherlands)

Plasma cholesteryl ester transfer protein is predominantly derived from Kupfer cells

Yanan Wang (The Netherlands)

Session IV. OTHER TOPICS

Organized and chaired by Emil Daniel Bartels (Denmark) and Arild Christian Rustan (Norway)

PBMC gene expression of inflammatory markers after an acute bout of resistance exercise in young and elderly subjects

Gyrd Gjevestad (Norway)

The efficacy of ezetimibe and statins combination treatment of hypercholesterolemia in patients after renal transplantation: results of meta-analysis

Aneta Ostróżka-Cieślik (Poland)

Fenofibrate therapy of dyslipidemia in patients with type 2 diabetes: results of meta-analysis

Beata Sarecka-Hujari (Poland)

Assessment of selected biomarkers of vascular changes in children with primary headaches - a pilot study

Joanna Sordyl (Poland)