

# PROGRAMME



## 19<sup>th</sup> ANNUAL SCANDINAVIAN ATHEROSCLEROSIS CONFERENCE International Meeting

April 15 – 18, 2013

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

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### SCIENTIFIC COMMITTEE

Line M. Grønning-Wang (Norway), Emil D. Bartels (Denmark),  
Stefan Stender (Denmark), Monique Mulder (The Netherlands),  
Vesa Olkkonen (Finland), Mats Eriksson (Sweden),  
Mats Rudling (Sweden), Matti Jauhiainen (Finland)

### 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 Gudnasson  
Alexandra Krettek  
Anna-Liisa Levonen  
Vesa Olkkonen  
Trine Ranheim  
Gunnar Sigurdsson

**HOME PAGE:** [www.SSAR.dk](http://www.SSAR.dk) (Matteo Pedrelli, webmaster)

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## 19<sup>th</sup> ANNUAL SCANDINAVIAN ATHEROSCLEROSIS CONFERENCE International Meeting



### Monday, April 15, 2013

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 2012 NIKKILÄ MEMORIAL LECTURES

19.35 – 19.40: Introduction of the 2013 Nikkilä Lecturer  
**Paolo Parini (Sweden)**

19.40 – 20.05: **2013 Nikkilä Lecture**

*Quest for susceptibility genes promoting cardiovascular disease*  
**Anders Hamsten (Sweden)**

20.05 – 20.30: Discussion

20.30 - Pub will be open

### Tuesday, April 16, 2013

08.00 – 09.00: *Breakfast*

#### Session I. INFLAMMATION AND VASCULAR BIOLOGY

*Organized and chaired by Line M. Grønning-Wang (Norway), Emil D. Bartels (Denmark),*

09.00 – 09.25: *Hypoxia and LDL metabolism in atherosclerotic lesions - new insights into old dogmas in plaque biology*  
**Lars Bo Nielsen (Denmark)**

09.25 – 09.30: Discussion

09.30 – 09.45: *HDL, apoM & sphingosine 1-phosphate in human endothelial inflammation*  
**Andreas Holmér (Sweden)**

09.45 – 10.00: *Lysophosphatidic acid triggers mast cell-driven atherosclerotic plaque. Destabilization by increasing vascular inflammation*  
**Ilze Bot (The Netherlands)**

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- 10.00 – 10.15: *Increased neointimal formation after vascular injury in androgen receptor knockout mice*  
**Anna Wilhelmson (Sweden)**
- 10.15 – 10.30: *The inflammatory response of raised levels of VLDL-TG is dependent on the oxysterol receptor (LXR)*  
**Knut Rune Steffensen (Sweden)**
- 10.30 – 11.15: Coffee, posters and exhibitions
- 11.15 – 11.40: *The role of microRNAs in the vasculature*  
**Reiner Boon (Germany)**
- 11.40 – 11.45: Discussion
- 11.45 – 12.00: *Immune modulation by uremia in nephrectomized mice*  
**Anna Borup (Denmark)**
- 12.00 – 12.15: *Depletion of Foxp3+ regulatory cells promotes hypercholesterolemia and atherosclerosis*  
**Roland Klingenberg (Switzerland)**
- 12.15 – 12.30: *Extracellular acidosis is a novel danger signal alerting innate immunity via the NLRP3 inflammasome*  
**Kristina Rajamäki (Finland)**

### Session II. CARDIOVASCULAR DISEASE

Organized and chaired by Vesa Olkkonen (Finland), Mats Eriksson (Sweden)

- 12.30 – 12.55: *Childhood obesity, atherosclerosis, and adulthood cardiovascular risk*  
**Markus Juonala (Finland)**
- 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 Vesa Olkkonen (Finland), Mats Eriksson (Sweden)

19.00 – 19.25: *PCSK9, LDL receptors and coronary atherosclerosis: getting to the heart of the matter*  
**Jonathan Cohen (USA)**

19.25 – 19.30: Discussion

19.30 – 19.45: *ApoE<sup>-/-</sup> mice on high-fat diet demonstrate a blunted response to high-intensity interval training*  
**Madelene Ericsson (Sweden)**

19.45 – 20.00: *Metabolite profiles characterising obesity: observational and genetic evidence from >20,000 individuals*  
**Peter Würtz (Finland)**

20.00 – 20.15: *Anacetrapib dose-dependently decreases atherosclerosis development and adds to the beneficial effects of atorvastatin in APOE\*3Leiden.CETP mice*  
**Sam van der Tuin (The Netherlands)**

20.15 – 20.45: Coffee, posters and exhibitions.

20.45 – 21.00: *A novel deletion comprising exons 3 and 4 in the GPIHBP1-gene as the cause of type 1 hyperlipoproteinemia*  
**Knut Erik Berge (Norway)**

21.00 – 21.15: *Endogenous sex hormones, ischemic heart disease and early death in women from the general population*  
**Marianne Benn (Denmark)**

21.15 – 21.30: *Ischemic heart disease in overweight and obesity with and without the metabolic syndrome*  
**Mette Thomsen (Denmark)**

21.30 – Pub will be open

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### Wednesday, April 17, 2013

08.00 – 09.00: Breakfast.

#### **Session III. LIPOPROTEINS AND LIPID TRANSPORT**

Organized and chaired by Stefan Stender (Denmark), Monique Mulder (The Netherlands)

09.00 – 09.25: *Molecular genetic analysis of familial hypercholesterolaemia: what have we learned and where are we going?*  
**Steve E. Humphries (United Kingdom)**

09.25 – 09.30: Discussion

09.30 – 09.45: *Genetically reduced nonfasting triglycerides and reduced all-cause mortality*  
**Børge Nordestgaard (Denmark)**

09.45 – 10.00: *A genetic variant mimicking the effect of ezetimibe associates with increased risk of symptomatic gallstone disease*  
**Bo Kobbervø Lauridsen (Denmark)**

10.00 – 10.15: *Brown adipose tissue activation remodels the lipidomic landscape of metabolically active tissues: A high resolution UPLC-MS fluxomic approach*  
**Clara Weigelt (Germany)**

10.15 – 10.30: *Lipoprotein lipase activator LP071 improves plasma lipids in vivo*  
**Stefan K. Nilsson (Sweden)**

10.30 – 11.15: Coffee, posters and exhibitions

11.15 – 11.40: *The not so simple HDL story*  
**Jay W. Heinecke (USA)**

11.40 – 11.45: Discussion

11.45 – 12.00: *Lower adrenal steroid production in mice and humans with low HDL-cholesterol due to mutations in LCAT*  
**Menno Hoekstra (The Netherlands)**

12.00 – 12.15: *Extreme ends approach identifies novel eQTL genes for low HDL-C*  
**Pirkka-Pekka Laurila (Finland)**

12.15 – 12.30: *Bile acid sequestration enhances macrophage-to-feces reverse cholesterol transport in mice*  
**Jan Freark de Boer (The Netherlands)**

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12.30 – 12.45 *Adaptor protein PID 1 is a molecular switch for LRP1 function*  
**Kirstin Albers (Germany)**

12.45 – 14.00 Lunch

### Session IV. OTHER TOPICS

Organized and chaired by Mats Rudling (Sweden), Matti Jauhiainen (Finland)

14.00 – 14.25: *Maternal-foetal cholesterol transport*  
**Ute Panzenboeck (Austria)**

14.25 – 14.30: Discussion

14.30 – 14.45 *Heterozygous Glucokisase knockout mice in ApoE deficient background represent a novel disease model for type 2 diabetes and atherosclerosis*  
**Suvi Heinonen (Sweden)**

14.45 – 15.00 *Fibrates protect from bacterial sepsis by promoting neutrophil recruitment via CXCR2 stabilization*  
**Ivan Tancevski (Austria)**

15.00 – 15.15 *Amelioration of fatty liver by a novel FXR agonist is not due to inhibition of LXR activation*  
**Marije Boesjes (The Netherlands)**

15.15 – 15.30: *The effect of low carbohydrate high fat (LCHF) diet on cardiovascular risk factors in healthy non-obese subjects*  
**Kjetil Retterstøl (Norway)**

15.30 – 16.15: Coffee, posters and exhibitions

16.15 – 16.40: *Hepatocyte transplantation and stem cell regenerative therapy of liver diseases*  
**Stephen Strom (Sweden/USA)**

16.40 – 16.45: Discussion

16.45 – 17.00: *Expression of type IIA secretory phospholipase A2 (sPLA2) inhibits cholesteryl ester transfer protein (CETP) activity in transgenic mice*  
**Uwe Tietge (The Netherlands)**

17.00 – 17.15: *Impaired collagen biosynthesis and cross-linking in aorta of patients with bicuspid aortic valve*  
**Valentina Paloschi (Sweden)**

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- 17:15 – 17:30      *Apolipoprotein E genotype and plasma level - risk of dementia and cerebrovascular disease in 76 000 individuals*  
**Katrine Laura Rasmussen (Denmark)**
- 17.30 – 19.00:      Free time
- 19.00 – 19.30:      **Cocktail**
- 19.30 –              **Banquet and dancing**

#### **Thursday, April 18, 2013**

- 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 16, 2013

#### **Session I. INFLAMMATION AND VASCULAR BIOLOGY**

Organized and chaired by Line M. Grønning-Wang (Norway), Emil D. Bartels (Denmark)

*TNF destabilizes HIF-1 via activation of ubiquitin cascade and blunts angiogenic response to hypoxia in C2C12 myocytes*

**Vladimir Basic (Sweden)**

*Macrophage phenotypes in atherosclerosis - in vitro and in vivo*

**Line Stattau Bisgaard (Denmark)**

*Characterization of aortic dendritic cell subsets in healthy and atherosclerotic mice*

**Martin Busch (Germany)**

*Increased levels of IL-27 in atherosclerotic carotid disease*

**Ida Gregersen (Norway)**

*Critical role of FXII in atherosclerotic lesion formation in mice*

**Miriam Koch (Germany)**

*Increased perivascular neuropeptide Y expression contributes to atherosclerotic plaque progression and mast cell activation in ApoE<sup>-/-</sup> mice*

**Max Lagraauw (The Netherlands)**

*Sequencing deep into the mechanisms of atherogenesis*

**Henri Niskanen (Finland)**

*The CARD8 gene encoding a protein of innate immunity is expressed in human atherosclerosis and associated with markers of inflammation*

**Geena Paramel Varghese (Sweden)**

*MicroRNA -378 and 1225-5p expression correlates with deteriorating endothelial function in healthy adults in Young Finns Study*

**Emma Raitoharju (Finland)**

*The low-expression variant of fatty acid-binding protein 4 (FABP4) associates with asymptomatic carotid atherosclerosis*

**Jani Saksi (Finland)**



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### Poster Presentations

*Myeloid A Disintegrin and Metalloprotease ADAM10 deficiency promotes atherosclerotic plaque stability by increasing fibrosis*

**Emiel van der Vorst (The Netherlands)**

*Complement factor C5A induces atherosclerotic plaque disruption*

**Anouk Wezel (The Netherlands)**

### **Session II. CARDIOVASCULAR DISEASE**

Organized and chaired by Vesa Olkkonen (Finland), Mats Eriksson (Sweden)

*HDL-cholesterol efflux graft failure but not cardiovascular and overall mortality in renal transplant recipient*  
**Wijtske Annema (The Netherlands)**

*The effect of LP(a) in patients with heterozygous familial hypercholesterolemia on coronary plaque burden and calcium score determined by CT*

**Sven Bos (The Netherlands)**

*Nigerian specie of *Viscum Album* (mistletoe) leaf extract is a potent remedy for hypertension*

**Chiedu Jonathan Eze (Nigeria)**

*A prediction model to identify non-compliant FH patients*

**Jeanine Roeters van Lennep (The Netherlands)**

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### Poster Presentations

Wednesday, April 17, 2013

#### **Session III. LIPOPROTEINS AND LIPID TRANSPORT**

Organized and chaired by Stefan Stender (Denmark), Monique Mulder (The Netherlands)

*Familial Hypercholesterolemia and Atherosclerosis in Cloned Minipigs Created by DNA Transposition of a Human PCSK9 Gain-of-Function Mutant*

**Rozh Husain Al-Mashhadi**

*Hepatic ABCG5/G8 overexpression substantially increases biliary cholesterol secretion but does not impact in vivo macrophage-to-feces reverse cholesterol transport*

**Arne Dijkers (The Netherlands)**

*Apolipoprotein M carried S1P stimulates S1P-receptor 4 and 5*

**Cecilia Frej (Sweden)**

*Lack of invariant natural killer T cells affects lipid metabolism in adipose tissue of diet induced obese mice*

**Norbert Gerdes (Germany)**

*Circulating PCSK9 distribution in relation to markers of cholesterol metabolism in a Swedish cohort*

**Moumita Ghosh (Sweden)**

*Localization of CD36 and Caveolin-1 in brown adipose tissue*

**Kristina Gottschling (Germany)**

*Prednisolone strongly affects cholesterol and bile acid homeostasis in mice*

**Bert Groen (The Netherlands)**

*The minor allele of the missense polymorphism Ser251Pro in perilipin 2 (PLIN2) disrupts an  $\alpha$ -helix, affects the lipolysis and is associated with reduced plasma triglyceride concentration in humans*

**Peter Daniel Gustafsson (Sweden)**

*Pharmacological LXR activation time-dependently modulates VLDL metabolism and increases hepatic PPAR $\gamma$  activity in mice*

**Brenda Hijmans (The Netherlands)**

*Lipoprotein(a): Fasting and nonfasting levels, inflammation, and cardiovascular risk prediction*

**Anna Langsted (Denmark)**

*HDL-binding antibodies selected from phage antibody library*

**Janita Lövgren (Finland)**

*Silencing of PNPLA3 increases triglyceride content and decreases triglyceride hydrolysis in human Huh7 hepatocarcinoma cells*

**Hovsep Mahdessian (Sweden)**

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### Poster Presentations

*Lipoprotein profiles in South Asian and Caucasians Type 2 Diabetes patients.*

**Monique Mulder (The Netherlands)**

*Metformin-induced attenuation of mitochondrial respiration protects liver from oxidative stress*

**Eliska Palenickova (Czech Republic)**

*Autophagy-lysosomal pathway and lipid degradation in rat liver is downregulated in steatosis*

**Zuzana Papackova (Czech Republic)**

*Hepatic ACAT2 knock down increases ABCA1 and modifies HDL metabolism in mice*

**Matteo Pedrelli (Sweden)**

*Genetic screening of Familial Hypercholesterolemia in Västra Götalandsregionen, Sweden*

**Stefano Romeo (Sweden)**

*DGAT1 and its role in regulating intestinal cholesterol homeostasis*

**Vinay Sachdev (Austria)**

*Effects of adipocyte-selective lipoprotein lipase knockout on de novo lipogenesis, brown adipocyte activation and metabolic health*

**Ludger Scheja (Germany)**

*Replacing an SFA diet with PUFA diets down regulates PCSK9 gene expression and reduced plasma lipids - mechanistic studies in rats*

**Sara Straniero (Sweden)**

*Is pharmacy an appropriate arena for health screenings?*

**Karianne Svendsen (Norway)**

*Dietary saturated fat increases the susceptibility of LDL for aggregation by sphingomyelinase*

**Katariina Öörni (Finland)**

### Session IV. OTHER TOPICS

Organized and chaired by Stefan Stender (Denmark), Monique Mulder (The Netherlands)

*Indapamide enhances endothelial and arterial function, and increases longitudinal LV function in patients with hypertension and type 2-diabetes: A comparative study against hydrochlorothiazide*

**Joshua Temitope Adekeye (Nigeria)**

*On the regulatory role of side-chain hydroxylated oxysterols in the brain. Lessons from CYP27A1 transgenic and Cyp27a1<sup>-/-</sup> mice*

**Zeina Ali (Sweden)**

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### Poster Presentations

*Plasma asymmetric dimethylarginine, endothelium-dependent nitric oxide-mediated relaxation and vascular remodelling of uterine small arteries in pregnant women*

**Malene Rohr Andersen (Denmark)**

*Nicotinamide phosphoribosyltransferase (NAMPT) in atherosclerosis - a role in macrophage polarization?*

**Martine Z. Espeland (Norway)**

*Intact mitochondria despite triglyceride accumulation in CGI-58<sup>-/-</sup> macrophages*

**Madeleine Goeritzer (Austria)**

*Altered expression of genes involved in lipid metabolism in obese subjects with unfavourable phenotype*

**Kirsten Holven (Norway)**

*Deoxycholic acid-FXR signalling is crucial for the bile acid metabolic phenotypes in Cyp8b1<sup>-/-</sup> mice*

**Xiaoli Hu (Sweden)**

*Maternal familial hypercholesterolemia (FH) confers altered haemostatic profile in offspring with and without FH*

**Ingunn Narverud (Norway)**

*Psoriasis-like skin inflammation and atherosclerosis in mouse models*

**Tanja Xenia Pedersen (Denmark)**

*Higher ability for lipid accumulation and lower lipolysis in myotubes from extremely obese non-diabetic donors than in myotubes from extremely obese donors with type 2 diabetes*

**Arild Christian Rustan (Norway)**

*Depressive symptoms and inflammatory indexes modulate by moderate aerobic exercise training in postmenopausal women*

**Ana Maria Teixeira (Iran)**