

# PROGRAMME



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

April 16 – 19, 2012

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

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### SCIENTIFIC COMMITTEE

Marianne Benn (Denmark), Knut-Erik Berge (Norway), Per Fogelstrand (Sweden),  
Bente Halvorsen (Norway), Karsten Hartvigsen (Denmark), Mihail Hristov (Germany),  
Pia Kamstrup (Denmark), Anna-Liisa Levonen (Finland)

### OFFICE

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

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

Homepage: [www.SSAR.dk](http://www.SSAR.dk) (Matteo Pedrelli, webmaster)

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

### Monday, April 16, 2012

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

18.00 – 19.30: Dinner

19.30 – 19.35: Welcome  
Paolo Parini (Sweden)

#### THE 2012 NIKKILÄ MEMORIAL LECTURES

19.35 – 19.40: Introduction of the 2012 Nikkilä Lecturer.  
Alexandra Krettek (Sweden)

19.40 – 20.05: 2012 Nikkilä Lecture:  
*Use of imaging in conventional and genetic epidemiology of cardiovascular disease*  
Vilmundur Gudnason, (Iceland)

20.05 – 20.30: Discussion

20.30 - Pub will be open

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



### Tuesday, April 17, 2012

08.00 – 09.00: Breakfast

#### Session I. INFLAMMATION AND VASCULAR BIOLOGY

Organized and chaired by Per Fogelstrand (Sweden) and Mihail Hristov (Germany)

09.00 – 09.25: *Monocytes in atherosclerosis: subsets and function*  
Frederic Geissmann (UK)

09.25 – 09.30: Discussion

09.30 – 09.45: *HIF-1 $\alpha$  expression in macrophages promotes development of atherosclerosis*  
Tanja Xenia Pedersen (Denmark)

09.45 – 10.00: *Leukocyte NFATC2 deficiency deteriorates rather than protects against atherosclerosis  
by facilitating memory T-cell recruitment*  
Karen Gabriels (The Netherlands)

10.00 – 10.15: *Regression of atherosclerosis after cholesterol lowering is preceded by marked  
alterations of the LDL metabolism within the arterial wall*  
Emil Daniel Bartels (Denmark)

10.15 – 10.30: *The casual role of inflammation for low-HDL-C: evidence from an integrated analysis  
combining genomics, transcriptomics and lipidomics*  
Pirkka-Pekka Laurila (Finland)

10.30 – 11.15: Coffee, posters and exhibitions

11.15 – 11.40: *Regulation of vascular permeability by VEGF: molecular mechanisms*  
Lena Claesson-Welsh (Sweden)

11.40 – 11.45: Discussion

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- 11.45 – 12.00: *Reevaluation of the role of HDL in the anticoagulant protein C system*  
Björn Dahlbäck (Sweden)
- 12.00 – 12.15: *Protection against the development of abdominal aortic aneurysms in male androgen receptor deficient mice*  
Camilla Alexanderson (Sweden)

### Session II. CARDIOVASCULAR DISEASE

Organized and chaired by Knut-Erik Berge (Norway) and Karsten Hartvigsen (Denmark)

- 12.15 – 12.40: *Dampening inflammation and oxidative stress through a plant-based diet. Implications for cardiovascular disease*  
Rune Blomhoff (Norway)
- 12.40 – 12.45: Discussion
- 12.45 – 13.00: *Niacin reduces atherosclerosis progression and inflammation, alone and on top of simvastatin, mainly by reducing nonHDL-cholesterol*  
Susan Kühnast (The Netherlands)
- 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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## 18<sup>th</sup> ANNUAL SCANDINAVIAN ATHEROSCLEROSIS CONFERENCE International Meeting

### Session II. CARDIOVASCULAR DISEASE - continued

Organized and chaired by Knut-Erik Berge (Norway) and Karsten Hartvigsen (Denmark)

- 19.00 – 19.25: *New pathways in lipid metabolism and atherosclerosis discovered through human genetics*  
Dan Rader (USA)
- 19.25 – 19.30: Discussion
- 19.30 – 19.45: *Extracellular lipid particles in stenotic aortic leaflets*  
Satu Lehti (Finland)
- 19.45 – 20.00: *Unravelling divergent gene expression profiles in bicuspid and tricuspid aortic valve patients with thoracic aortic dilation: The ASAP study*  
Lasse Folkersen (Sweden)
- 20.00 – 20.15: *Regulation of genes in the TNF/TNFR superfamily in children with FH*  
Ingunn Narverud (Norway)
- 20.15 – 20.45: Coffee, posters and exhibitions.
- 20.45 – 21.00: *A stabilizing variant in transthyretin, T119M, associates with reduced risk of ischemic vascular events, later age onset, and increased age at death*  
Louise Stig Hornstrup (Denmark)
- 21.00 – 21.15: *Decreased cholesterol uptake to mouse peritoneal macrophages lacking Usf1 implies a leukocyte specific mechanism for the proatherogenic role of Usf1*  
Kaiharju Essi (Finland)
- 21.15 – 21.30: *25-hydroxyvitamin D levels and risk of ischemic heart disease, myocardial infarction and early death: The Copenhagen City Heart Study and meta-analyses.*  
Peter Brøndum Jacobsen (Denmark)
- 21.30 – Pub will be open

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

### Wednesday, April 18, 2012

08.00 – 09.00: Breakfast.

#### Session III. LIPOPROTEINS AND LIPID TRANSPORT

Organized and chaired by Pia Kamstrup (Denmark) and Anna-Liisa Levenon (Finland)

09.00 – 09.25: *Lipoprotein(a) – Reloaded*  
Florian Kronenberg (Austria)

09.25 – 09.30: Discussion

09.30 – 09.45: *Nonfasting remnant cholesterol as a casual risk factor for ischemic heart disease: three Mendelian randomization studies of 73,513 individuals*  
Børge G Nordestgaard (Denmark)

09.45 – 10.00: *Caspase-1 deficiency protects against obesity by reducing the flux of triglycerides from the intestine and liver towards adipose tissue*  
Janna Van Diepen (The Netherlands)

10.00 – 10.15: *Genetic inhibition of apoB secretion is paralleled by reduced secretion of apoA1 from liver cells*  
Pernille Møller Christensen (Denmark)

10.15 – 10.30: *High density lipoprotein (HDL) particles from end-stage renal disease patients are dysfunctional in promoting reverse cholesterol transport*  
Uwe Tietge (The Netherlands)

10.30 – 11.15: Coffee, posters and exhibitions

11.15 – 11.40: *Proteolytic modification of HDL impairs initiation of reverse cholesterol transport*  
Miriam Lee-Rueckert (Finland)

11.40 – 11.45: Discussion

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- 11.45 – 12.00: *Importance of PCSK9 for the hormonal and dietary regulation of LDLc in man*  
Mats Rudling (Sweden)
- 12.00 – 12.15 *Detailed metabolic and genetic characterization of known lipid loci*  
Taru Tukiainen (Finland)
- 12.15 – 12.30 *Genetic variation in ABCG5/8 associated with lower plasma LDL cholesterol protects against myocardial infarction, but increases the risk of gallstone disease in the general population*  
Stefan Stender (Denmark)
- 12.30 – 12.45 *Triacylglycerol-rich lipoproteins protect LPL from inactivation by ANGPTL3 and -4 in vitro and in vivo*  
Madelene Ericsson (Sweden)
- 12.45 – 14.00 Lunch

### Session IV. OTHER TOPICS

Organized and chaired by Marianne Benn (Denmark) and Bente Halvorsen (Norway)

- 14.00 – 14.25: *Genes, biomarkers and risk of cardiometabolic disease.*  
Aroon D Hingorani (UK)
- 14.25 – 14.30: Discussion
- 14.30 – 14.45 *Aging signs predict risk of ischemic cardiovascular disease independent of chronological age*  
Mette Christoffersen (Denmark)
- 14.45 – 15.00 *MicroRNAs in the liver and visceral adipose tissue in non-alcoholic fatty liver disease*  
Jarkko Soronen (Finland)
- 15.00 – 15.15 *PPAR $\delta$ /RXR inhibits LPL activity and LPL-dependent fatty acid uptake via angiotensin-like 4 in myotubes*  
Marius Robciuc (Finland)

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- 15.15 – 15.30: *Novel small molecule compound LP3 enhances lipoprotein lipase activity and improves plasma lipid levels in vivo*  
Stefan K Nilsson (Sweden)
- 15.30 – 16.15: Coffee, posters and exhibitions
- 16.15 – 16.40: *Macrophage phenotypes in atherosclerosis*  
Andrew C Newby (UK)
- 16.40 – 16.45: Discussion
- 16.45 – 17.00: *Inhibition of cholic acid synthesis in vivo in mice by utilizing second generation antisense oligonucleotides specific for Cyp8b1*  
Xiaoli Hu (Sweden)
- 17.00 – 17.15: *OSPB-related protein 8 (ORP8) integrates nuclear functions, macrophage migration, calcium signaling, cellular sterol metabolism, and plasma HDL levels*  
Terhi Vihervaara (Finland)
- 17:15 – 17:30 *BMP-7 reduces high fat diet-induced adiposity in mice by activating brown adipose tissue in a sympathetic-dependent way: Implications for obesity*  
Mariëtte Boon (The Netherland)
- 17.30 – 19.00: Free time
- 19.00 – 19.30: Cocktails
- 19.30 – Banquet and dancing

### Thursday, April 19, 2012

- 08.30 – 10.00: Breakfast
- 10.00 Departure

Have a nice trip back home!!!  
See you same place next year!!!



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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 17, 2012

#### Session I. INFLAMMATION AND VASCULAR BIOLOGY

Organized and chaired by Per Fogelstrand (Sweden) and Mihail Hristov (Germany)

*The association of serum neutrophil markers and acute coronary syndrome*  
**Alfakry Hatem (Finland)**

*Adrenal-derived steroids inhibit the development of initial atherosclerotic lesions in LDL receptor knockout mice*  
**Hoekstra Menno (The Netherlands)**

*Endothelial lipase is regulated by Sterol Regulatory Element Binding Proteins (SREBPs) in endothelial cells*  
**Kivelä Annukka (Finland)**

*Alpha 7 nicotinic acetylcholine receptor expression in hematopoietic cells is required for normal platelet function*  
**Kooijman Sander (The Netherlands)**

*Heterogeneity of human bone marrow-derived monocytes*  
**Mandl Manuela (Germany)**

*Anti-inflammatory, anti-proliferative and anti-atherosclerotic effects of quercetin in human in vitro and in vivo models*  
**Morrison Martine (The Netherlands)**

*Vasculoprotective function of HDL from CETP-deficient subjects*  
**Ossoli Alice (Italy)**

*The NLRP3 inflammasome mediates myocardial ischemia-reperfusion injury*  
**Ranheim Trine (Norway)**

*Atorvastatin inhibits cellular legumain activity and prolegumain secretion from macrophages*  
**Smith Robert (Norway)**

*Role of epicardial fat tissue in the coronary artery disease development*  
**Ždychová Jana (Czech Republic)**

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### Poster Presentations

#### Session II. CARDIOVASCULAR DISEASE

Organized and chaired by Knut-Erik Berge (Norway) and Karsten Hartvigsen (Denmark)

*Oral antidiabetic agents' impact on lipoprotein profile and cardiovascular prevention*  
**Benedetto Danilo (Italy)**

*Hematopoietic NAMPT overexpression attenuates lesion progression by tuning PPAR $\gamma$  dependent monocyte differentiation and function*  
**Bermudez Pulgarin Beatriz (The Netherlands)**

*Genetic variation in FADS modifies the association between dietary polyunsaturated fatty acids and incidence of cardiovascular disease*  
**Hellstrand Sofie (Sweden)**

*Nrf2 deficiency in LDL receptor deficient mice expressing only ApoB<sup>100</sup> leads to severe atherosclerosis and occlusive coronary artery disease*  
**Ruotsalainen Anna-Kaisa (Finland)**

*Increased LR11 expression in the absence of the LDLR: Contribution to coronary artery disease?*  
**Vongpromek Ranitha (The Netherlands)**

*TNFRS11B/OPG in abdominal aortic aneurysm*  
**Vorkapic Emina (Sweden)**

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### Wednesday, April 18, 2012

#### Session III. LIPOPROTEINS AND LIPID TRANSPORT

Organized and chaired by Pia Kampstrup (Denmark) and Anna-Liisa Levonen (Finland)

*Apolipoprotein E overexpression increases hepatic selective uptake but not biliary sterol secretion or in vivo reverse cholesterol transport due to increased ABCA1-mediated cholesterol efflux from hepatocytes*

**Annema Wijtske (The Netherlands)**

*Lipoprotein transport in the yolk sac*

**Bauer Raimund (Austria)**

*Familial hypercholesterolemia in the general population: prevalence, coronary artery disease and lipid lowering therapy*

**Benn Marianne (Denmark)**

*SR-BI but not ABCG5/G8 expression is important for in vivo macrophage-to-feces reverse cholesterol transport*

**Dijkers Arne (The Netherlands)**

*Serum lipoprotein profiles and bile acid composition are substantially humanized in chimeric mice*

**Ewa Ellis (Sweden)**

*Effect of apolipoprotein M on reverse cholesterol transport in mice*

**Elsøe Sara (Denmark)**

*Excercise and quercetin supplementation induces weight loss and affect atherosclerotic plaque and lipoprotein metabolism in mice*

**Garelnabi Mahdi (USA)**

*Role of Myricetin treatment on lipoprotein metabolism in 13-HODE exposed HepG2 cells*

**Garelnabi Mahdi (USA)**

*Rare mutations in APOC3 confer an antiatherogenic lipid profile and reduced risk of ischemic vascular disease in the general population*

**Jørgensen Anders Berg (Denmark)**

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### Poster Presentations

*The cyclosporine A reduces reverse cholesterol transport in mice through inhibition of the faecal cholesterol excretion*

**Lusardi Giulia (Italy)**

*Transcriptomal analysis of mouse adipose tissue suggests a role for USF1 in regulation of energy metabolism and inflammation*

**Rautaheimo Emmi (Finland)**

*Absence of serum angiopoietin-like 3 causes development of familial combined hypolipidemia (FCHypoL) and increased LPL activity*

**Robciuc Marius (Finland)**

*Effect of N-glycosylation on ANGPTL3 protein trafficking and secretion*

**Romeo Stefano (Sweden)**

*Opposite responses following acute or chronic resin treatment in man -- Importance of bile acids*

**Mats Rudling (Sweden)**

*High-density lipoproteins exert pro-inflammatory effects on bone-marrow derived macrophages*

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

*The effect of human ApoE4 on cerebral ceramide profiles in mice*

**Verhoeven Adrie (The Netherlands)**

*Serum cholesterol efflux capacity and endothelial function in hyperalpha lipoproteinemic subjects*

**Zimetti Francesca (Italy)**

### Session IV. OTHER TOPICS

Organized and chaired by Marianne Benn (Denmark) and Bente Halvorsen (Norway)

*Kupffer cells ameliorate hepatic insulin resistance induced by high-fat diet rich in monounsaturated fatty acids: the evidence for the involvement of alternatively activated macrophages*

**Cahova Monika (Czech Republic)**

*HDL functionality relates positively to pancreatic  $\beta$ -cell function in type 2 diabetes mellitus*

**De Boer Jan Freark (The Netherlands)**

*Niacin induces insulin resistance and enhances beta2-adrenergic sensitivity in ApoE\*3-*



### Poster Presentations

*Leiden/CETP mice*

**Heemskerk Mattijs (The Netherlands)**

*Oxidized fish oil does not influence established markers of oxidative stress in healthy humans. A randomized controlled trial*

**Holven Kirsten (Norway)**

*Creatinine, cardiovascular disease risk and all cause mortality in the general population*

**Laerum Sibilitz Kirstine (Denmark)**

*Modulatory effect of diabetes type I on brain cholesterol metabolism*

**Mulder Monique (The Netherlands)**

*Skin cancer as a marker of sun exposure and risk of myocardial infarction, hip fracture and early death*

**Nielsen Sune (Denmark)**

*Niacin and fenofibrate increase HDL by reducing hepatic macrophages*

**Rensen Patrick CN (The Netherlands)**

*A case of LCAT deficiency secondary to malignant non-hodgkin lymphoma*

**Simonelli Sara (Italy)**

*The preserved autophagy pathway is essential in the early stages of adipogenesis*

**Škop Vojtěch (Czech Republic)**

*GPS2-dependent corepressor/SUMO pathways govern anti-inflammatory actions of LXRβ in the hepatic acute phase response*

**Steffensen Knut R (Sweden)**

*Effect of long-term statin treatment on lipoprotein profiles of patients with Familial Hypercholesterolemia with and without Coronary Heart Disease*

**Van der Zee Leonie (The Netherlands)**