

**Finnish Atherosclerosis Society / Suomen Ateroskleroosiyhdistys ry
Sixth Annual Meeting in Helsinki**

Time: 16.-17.3.2012

Place: Biomedicum, Haartmaninkatu 8, Helsinki

Program

Friday 16.3.

- 12:30-13:15 **Registration + Coffee**
- 13:15-13:20 **Opening words**
Matti Jauhiainen
- 13:20-14:00 **Origins of metabolic complications in obesity: Adipose tissue inflammation and ectopic fat**
*Kirsi Pietiläinen, Obesity Research Unit
Helsinki University Central Hospital, Helsinki*

Session I

Basic and translational research

Chairs: *Kati Öörni and Vesa Olkkonen*

- 14:00-14.15 **Knockout of Usf1 reduces atherosclerosis and leads to a favorable metabolic phenotype in mice**
Pirkka-Pekka Laurila, National Institute for Health and Welfare, Biomedicum, Helsinki
- 14:15-14:30 **Decreased cholesterol uptake to mouse peritoneal macrophages lacking Usf1 implies a leukocyte specific mechanism for the pro-atherogenic role of Usf1**
Essi Kaiharju, National Institute for Health and Welfare, Biomedicum, Helsinki
- 14.30-14:45 **Acidic pH facilitates HDL interconversion into larger and lipid-poor apoA-I containing particles enhancing macrophage cholesterol efflux**
Su Nguyen, Wihuri Research Institute, Helsinki
- 14:45-15:00 **Nitro-oleic acid regulates endothelin receptor B expression in endothelial cells via transcription factor Nrf2**
Emilia Kansanen, Department of Biotechnology and Molecular Medicine, A.I.Virtanen Institute for Molecular Sciences, University of Eastern Finland, Kuopio
- 15:00-15:30 **Coffee**

- 15:30-15:45 **Fatty acyl esterification and deesterification of 17 β -estradiol in human subcutaneous adipose tissue**
Feng Wang, Folkhälsan Research Center, Institute of Clinical Medicine, University of Helsinki, and Division of Cardiology, Helsinki University Central Hospital
- 15:45-16:00 **Oxysterol binding proteins in adipose tissue – Role in fat cell differentiation**
You Zhou, Minerva Foundation Institute for Medical Research, Helsinki
- 16:00-16:15 **Transcriptomal analysis of mouse adipose tissue suggests a role for USF1 in regulation of energy metabolism and inflammation**
Emmi Rautaheimo, National Institute for Health and Welfare, Helsinki University Central Hospital, Biomedicum, Helsinki
- 16:15-16:30 **Hyperosmolarity induced lipid droplets formations relies on group VI phospholipases A₂ activation and ceramide production**
Alexandra Robciuc, Helsinki Eye Lab, Department of Ophthalmology, National Institute for Health and Welfare, Biomedicum, Helsinki
- 16:30-16:45 **PPAR δ /RXR inhibits lipoprotein lipase (LPL) activity and LPL-dependent fatty acid uptake via angiotensin-like 4 in myotubes**
Marius Robciuc, National Institute for Health and Welfare, Biomedicum, Helsinki
- 16:45-17:00 **PNPLA3 is regulated by glucose via CHREBP and its I148M mutant slows down triglyceride hydrolysis in human hepatocytes**
Julia Perttilä, Minerva Foundation Institute for Medical Research, Helsinki
- 17:00-17:15 **Lipid bodies in human mast cells: distinct sites for eicosanoid biosynthesis**
Andrea Dichlberger, Wihuri Research Institute, Helsinki
- 17:30-18:30 **Suomen Ateroskleroosiyhdistys ry:n 6. sääntömääräinen vuosikokous**
- 18:30-22:00 **Dinner in Biomedicum**

Saturday 17.3.**Session II
Genetic and clinical studies***Chairs: Terhi Vihervaara and Matti Jauhiainen*

- 8:30-8:45 **Ideal Cardiovascular Health in Childhood and Cardiometabolic Outcomes in Adulthood. The Cardiovascular Risk in Young Finns Study**
Markus Juonala, University Hospital and University of Turku
- 8:45-9:00 **Adolescence Risk Factors are Predictive of Coronary Artery Calcification at Middle Age. The Cardiovascular Risk in Young Finns Study**
Olli Hartiala, Research Centre of Applied and Preventive Cardiovascular Medicine, Turku
- 9:00-9:15 **Youth Adiposity and Metabolic Derangements in Predicting Intima-Media Thickness, Type 2 Diabetes and Cardiovascular Risk Factors in Adulthood. The Cardiovascular Risk in Young Finns Study**
Juha Koskinen, Research Center of Applied and Preventive Cardiovascular Medicine, University of Turku
- 9:15-9:30 **Serum uric acid is not causally linked to carotid intima-media thickness. The Cardiovascular Risk in Young Finns Study.**
Mervi Oikonen, Research Center of Applied and Preventive Cardiovascular Medicine, University of Turku
- 9:30-9:45 **Metabolic syndrome and mortality to cardiovascular diseases**
Merja Santaniemi, Institute of Clinical Medicine, University of Oulu and Oulu University Hospital
- 9:45-10:00 **Laboratory measurements of high-density lipoprotein cholesterol - problems and possible solutions**
Jaana Leiviskä, National Institute for Health and Welfare, Helsinki
- 10:00-10:15 **Sex differences in the relation between obesity and serum lipoprotein subclass profile: a twin study approach**
Leonie Bogl, Department of Public Health, University of Helsinki
- 10:15-10:45 **Coffee**
- 10:45-11:00 **Liver fat accumulation predicts the risk of fatal cardiovascular endpoint**
Pauliina Pisto, Institute of Clinical Medicine, University of Oulu, Oulu University Hospital

Session III

Immune system and inflammation in atherosclerosis

Chairs: *Pirkko Pussinen and Petri Kovanen*

- 11:00-11:15 **The balance of serum matrix metalloproteinase-8 and its tissue inhibitor in acute coronary syndrome and its recurrence**
Erkki Pesonen, Children's Hospital, University of Helsinki, Skåne University Hospital, Lund, Sweden
- 11:15-11:30 **Missing teeth associate with incident coronary heart disease events but not with diabetes**
Pirkko Pussinen, Institute of Dentistry, University of Helsinki
- 11:30-11:45 **Dental caries in childhood affects QT interval in adulthood. The Cardiovascular Risk in Young Finns Study**
Kari-Matti Mäkelä, Department of Clinical Chemistry, Tampere University Hospital and University of Tampere
- 11:45-12:00 **Bacterial signatures in thrombus aspirates of patients with myocardial infarction**
Tanja Pessi, School of Medicine, University of Tampere and Fimlab Laboratories Ltd, Pirkanmaa Hospital District, Tampere
- 12:00-12:15 **Bacteria and Activity of Toll-Like Receptor - Dependent Signaling Pathways in Ruptured Fibrous Cap of Coronary Plaques**
Pekka Karhunen, Medical School, University of Tampere and Research Unit of the Fimlab Laboratories, Tampere
- 12:15-12:30 **Immunization with Malondialdehyde Modified Low-Density Lipoprotein Reduces Atherosclerosis in LDLR^{-/-} Mice Challenged with Periodontopathogen *Porphyromonas gingivalis***
Pauliina Turunen, Department of Medical Microbiology and Immunology, Institute of Diagnostics, University of Oulu
- 12:30-12:45 **Identification and characterization of human monoclonal Fab antibodies against MAA-LDL**
Chunguang Wang, Institute of Diagnostics, Department of Medical Microbiology and Immunology, University of Oulu
- 12:45-13:00 **Acidic pH Triggers Secretion of Proinflammatory Cytokines in Human Macrophages**
Kristiina Rajamäki, Wihuri Research Institute, Helsinki

13:00-13:05

Closing words
Matti Jauhiainen

13:05-14:00

Lunch and farewell