

# Program Monday Sept 4<sup>th</sup>, Tuesday Sept 5<sup>th</sup>

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## Monday, Sept. 4<sup>th</sup>

16:00 – 18.00	<b>Arrival and registration</b>
18:00 – 20:00	<b>Dinner</b>
20:00 - 20:05	<b>Welcome and introduction of Keynote Lecturer</b> Anne Tybjærg-Hansen (Copenhagen, Denmark)
20:05 – 21:00	<b>Bart Staels (Lille, France)</b> Lipids and lipoproteins linking fatty liver and cardiovascular disease.

## Tuesday, Sept. 5<sup>th</sup>

Session:	<b>Energy metabolism</b> Chairpersons: Patrick Rensen (Leiden, The Netherlands) and Ludger Scheja (Hamburg, Germany)
8:30 - 9:10	<b>Invited speaker: Matthias Tschöp (Munich, Germany)</b> Role of gut-brain axis in energy metabolism.
9:10 - 9:30	<b>Zhuang Li (Leiden, The Netherlands)* 0032</b> Butyrate reduces appetite and activates brown adipose tissue via the gut-brain neural circuit.
9:30 - 9:50	<b>Eelke Brandsma (Groningen, The Netherlands) * 0020</b> Gut microbiota dysbiosis augments atherosclerosis in LDLr <sup>-/-</sup> mice.
9:50 - 10:10	<b>Antwi-Boasiako Oteng (Wageningen, The Netherlands)* 0005</b> Feeding ANGPTL4 <sup>-/-</sup> mice with trans fat promote foam cell formation in mesenteric lymph nodes without leading to ascites.
10:10 – 10:40	<b>Coffee break</b>

# Program Tuesday Sept 5<sup>th</sup> (continued)

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- 10.40 – 11.00      **Markus Heine (Hamburg, Germany) 0062**  
Dynamics of lipoprotein lipase mediated processing of triglyceride-rich lipoproteins in brown adipose tissue.
- 11.00 – 11.20      **Joerg Heeren (Hamburg, Germany) 0069**  
Lipolysis triggers a systemic insulin response essential for efficient energy replenishment of activated brown adipose tissue.
- 11.20 – 11.40      **Madalina Duta-Mare (Graz, Austria) \* 0059**  
Loss of lysosomal acid lipase affects thermoregulation.
- 11.40 – 12.00      **Alexander Bartelt (Boston, USA) 0060**  
Brown fat metabolic function requires NFE2L1-mediated proteasomal activity.
- 12.00 – 12.20      **Alexander Fischer (Hamburg, Germany) \* 0048**  
CHREBP drives brown adipose tissue adaption to thermoneutrality.
- 12.20 – 13.20      **Lunch**
- Session:            **Cellular lipid homeostasis**  
Chairpersons: Dagmar Kratky (Graz, Austria) and Laurent Martinez (Toulouse, France)
- 13:30 - 14:10      **Invited speaker: Elina Ikonen (Helsinki, Finland)**  
LDL cholesterol transport to the endoplasmic reticulum.
- 14:10 - 14:30      **Melinde Wijers (Groningen, The Netherlands) \*0064**  
The WASH complex facilitates endosomal trafficking of LDLR family members and mutations in WASH components causes hypercholesterolemia.
- 14:30 - 14:50      **Thomas Grewal (Sydney, Australia) 0007**  
Annexin A6-mediated recruitment of TBC1D15 regulates RAB7-dependent cholesterol egress from late endosomes in NPC1 mutant cells.
- 14:50 - 15:10      **Ewa Ehrenborg (Stockholm, Sweden) 0047**  
Variants of the lipid droplet-associated protein perilipin 2 (PLIN2) influence LXR activation-effects on reverse cholesterol transport and lipid accumulation.

# Program Tuesday Sept 5<sup>th</sup> (continued)

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15:10 – 15:30

**Miranda van Eck (Leiden, The Netherlands) 0072**

Heat shock protein alpha B-crystallin enhances macrophage foam cell formation and promotes early atherosclerosis in LDL receptor knockout mice.

15.30 – 15.50

**Srividya Velagapudi (Schlieren, Switzerland) \*0054**

Sphingosine-1-phosphate and its receptors S1P1 and S1P3 regulate the transendothelial transport of HDL and LDL antagonistically.

16:00 - 18:00

**Wine and Science**

18:00 - 19:20

**Dinner**

# Program Tuesday Sept 5<sup>th</sup> (continued)

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Session:	<b>Dyslipidaemia and treatment</b> Chairpersons: Nicola Ferri (Padova, Italy) and Thorsten Hornemann (Zürich, Switzerland)
19:30 - 20:10	<b>Invited speaker: Marlys Kochinsky (London, ON, Canada)</b> Progress in understanding the mechanism of Lp(a) pathogenicity.
20:10 - 20:30	<b>Faiza Qayyum (Copenhagen, Denmark)* 0081</b> Statin treatment, genetic inhibition of HMGCR, and risk of symptomatic gallstone disease.
20:30 - 20:50	<b>Danilo Norata (Milan, Italy) 0025</b> PCSK9 deficiency reduces insulin secretion and promotes glucose intolerance: the role of the LDL receptor.
20:50 - 21:10	<b>Albert Groen (Amsterdam, the Netherlands) 0019</b> Combined activation of LXR and FXR shows promise as a novel treatment modality for cardiovascular disease.
21:10 - 21:30	<b>Jan Freark de Boer (Groningen, The Netherlands) 0067</b> FXR activation ameliorates western-type diet-induced obesity and dyslipidemia in APOE*3-Leiden.CETP transgenic mice.
21:30 - 21:50	<b>Marianne Pouwer (Leiden, The Netherlands)* 0012</b> The effect of BCR-ABL1 tyrosine kinase inhibitors mice on lipid metabolism and cardiovascular safety: imatinib and ponatinib decrease plasma cholesterol and atherosclerosis in APOE*3-Leiden.CETP mice.

# Program Wednesday Sept 6<sup>th</sup>

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Session:	<b>Genetics</b> Chairpersons: Jan Albert Kuivenhoven (Groningen, The Netherlands) and Dimitris Kardassis (Heraklion, Greece)
8:30 - 9:10	<b>Invited speaker: Robert Passier (Leiden, The Netherlands)</b> Human Pluripotent stem cells in cardiovascular research.
9:10 - 9:30	<b>Stefan Coassin (Innsbruck, Austria) 0017</b> A novel but highly frequent variant in the LPA KIV-2 repeat is associated with a pronounced Lp(a) and cardiovascular risk reduction.
9:30 - 9:50	<b>Claudia Lamina (Innsbruck, Austria) 0018</b> Results from a genome-wide association meta-analysis on lipoprotein(a) concentrations adjusted for apolipoprotein(a) isoforms.
9:50 - 10:10	<b>Ko Willems van Dijk (Leiden, The Netherlands) 0056</b> Circulating cholesteryl ester transfer protein (CETP) concentration: a genome-wide association study followed by mendelian randomization on coronary artery disease.
10:10 - 10:30	<b>Natalia Loaiza (Groningen, The Netherlands)* 0063</b> Exploring the role of STAP1 in cholesterol metabolism: characterization of STAP1 knock-out mice and screening for mutations in humans.
10:30 - 11:00	<b>Coffee break</b>
11:00 - 11:20	<b>Antoine Rimbart (Groningen, The Netherlands)* 0074</b> A genetic variant in the CCC component CCDC93 is associated with reduced plasma LDL-c and myocardial infarction in man.
11:20 - 11:40	<b>Emilie Kjeldsen (Copenhagen, Denmark) * 0088</b> ABCA7 and risk of dementia, ischemic heart- and cerebrovascular disease.

# Program Wednesday Sept 6<sup>th</sup> (continued)

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- 11:40 - 12:00      **Biljana Atanasovska (Groningen, The Netherlands)\* 0058**  
Whole genome transcriptomics in human livers revealed long non-coding RNAs associated with non-alcoholic steatohepatitis.
- 12:00 - 12:20      **ELC status and general discussion**
- 12:20 – 13:20      **Lunch**
- 13:50 - 24:00      **Bus transfer from Akademie to Social Event**  
Neuschwanstein Castle and restaurant

# Program Thursday Sept 7<sup>th</sup>

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Session:	<b>Varia</b> Chairpersons: Katariina Öörni (Helsinki, Finland) and Jan Borén (Gothenburg, Sweden)
09:00 - 09:20	<b>Olga Snip (Leiden, The Netherlands)* 0055</b> Leukocyte ABCA1 impedes progression of established atherosclerotic lesions after dietary cholesterol lowering in LDL receptor knock-out mice.
9:20 – 9:40	<b>Amber Ouweneel (Leiden, The Netherlands)* 0038</b> Disruption of cholesterol transporters ABCA1 and ABCG1 alters megakaryopoiesis and proplatelet production.
09:40 - 10:00	<b>Fabrizia Bonacina (Milan, Italy)* 0036</b> Apolipoprotein E modulates adaptive immune response by promoting cellular cholesterol metabolism in dendritic cells.
10:00 – 10:20	<b>Maija Ruuth (Helsinki, Finland)* 0026</b> Instability of LDL particles predicts future cardiovascular deaths.
10:00 – 10:40	<b>Coffee break</b>
10:40 – 11:00	<b>Young Investigator Awards</b>
11:00-11:20	<b>Marit Westerterp (Groningen, The Netherlands) 0016</b> Cholesterol efflux pathways suppress inflammasome activation in mice and humans.
11:20-11:40	<b>Herbert Stangl (Vienna, Austria) 0010</b> The HDL receptor SR-BI controls the metabolic phenotype in human metastatic melanoma.
11:40 - 12:00	<b>Michael Ploug (Copenhagen, Denmark) 0014</b> Protein destabilization as a regulating factor in intravascular lipolysis.
12.00 – 12.20	<b>Marie-Eve Piche (Oxford, UK) 0006</b> Fatty acid spillover: a signature of a metabolic health?
12:25 – 13:30	<b>Farewell, lunch and departure</b>

*\*Want to be considered for the Young Investigator Award*