**Program Monday Sept 4th, Tuesday Sept 5th**

**Monday, Sept. 4th**
16:00 – 18.00  
Arrival and registration
18:00 – 20:00  
Dinner
20:00 – 20:05  
Welcome and introduction of Keynote Lecturer
Anne Tybjærg-Hansen (Copenhagen, Denmark)
20:05 – 21:00  
Bart Staels (Lille, France)  
Lipids and lipoproteins linking fatty liver and cardiovascular disease.

**Tuesday, Sept. 5th**

**Session:**  
**Energy metabolism**
Chairpersons: Patrick Rensen (Leiden, The Netherlands) and Ludger Scheja (Hamburg, Germany)

8:30 - 9:10  
**Invited speaker: Matthias Tschöp (Munich, Germany)**  
Role of gut-brain axis in energy metabolism.

9:10 - 9:30  
**Zhuang Li (Leiden, The Netherlands) * 0032**  
Butyrate reduces appetite and activates brown adipose tissue via the gut-brain neural circuit.

9:30 - 9:50  
**Eelke Brandsma (Groningen, The Netherlands) * 0020**  
Gut microbiota dysbiosis augments atherosclerosis in LDLr–/– mice.

9:50 - 10:10  
**Antwi-Boasiako Oteng (Wageningen, The Netherlands) * 0005**  
Feeding ANGPTL4–/– mice with trans fat promote foam cell formation in mesenteric lymph nodes without leading to ascites.

10:10 – 10:40  
Coffee break

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Program Tuesday Sept 5th (continued)

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 Dutu-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.

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Program Tuesday Sept 5th (continued)

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<tr>
<th>Time</th>
<th>Speaker</th>
<th>Presentation Title</th>
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<tbody>
<tr>
<td>15:10 – 15:30</td>
<td>Miranda van Eck (Leiden, The Netherlands) 0072</td>
<td>Heat shock protein alpha B-crystallin enhances macrophage foam cell formation and promotes early atherosclerosis in LDL receptor knockout mice.</td>
</tr>
<tr>
<td>15:30 – 15:50</td>
<td>Srividya Velagapudi (Schlieren, Switzerland) *0054</td>
<td>Sphingosine-1-phosphate and its receptors S1P1 and S1P3 regulate the transendothelial transport of HDL and LDL antagonistically.</td>
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<tr>
<td>16:00 - 18:00</td>
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<td><strong>Wine and Science</strong></td>
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<tr>
<td>18:00 - 19:20</td>
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<td>Dinner</td>
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Session: Dyslipidaemia and treatment
Chairpersons: Nicola Ferri (Padova, Italy) and Thorsten Hornemann (Zürich, Switzerland)

19:30 - 20:10 Invited speaker: Marlys Kochinsky (London, ON, Canada)
Progress in understanding the mechanism of Lp(a) pathogenicity.

20:10 - 20:30 Faiza Qayyum (Copenhagen, Denmark)* 0081
Statin treatment, genetic inhibition of HMGCR, and risk of symptomatic gallstone disease.

20:30 - 20:50 Danilo Norata (Milan, Italy) 0025
PCSK9 deficiency reduces insulin secretion and promotes glucose intolerance: the role of the LDL receptor.

20:50 - 21:10 Albert Groen (Amsterdam, the Netherlands) 0019
Combined activation of LXR and FXR shows promise as a novel treatment modality for cardiovascular disease.

21:10 - 21:30 Jan Freark de Boer (Groningen, The Netherlands) 0067
FXR activation ameliorates western-type diet-induced obesity and dyslipidemia in APOE*3-Leiden.CETP transgenic mice.

21:30 - 21:50 Marianne Pouwer (Leiden, The Netherlands)* 0012
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.

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Program Wednesday Sept 6th

Session:

Genetics
Chairpersons: Jan Albert Kuivenhoven (Groningen, The Netherlands) and Dimitris Kardassis (Heraklion, Greece)

8:30 - 9:10
Invited speaker: Robert Passier (Leiden, The Netherlands)
Human Pluripotent stem cells in cardiovascular research.

9:10 - 9:30
Stefan Coassin (Innsbruck, Austria) 0017
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
Claudia Lamina (Innsbruck, Austria) 0018
Results from a genome-wide association meta-analysis on lipoprotein(a) concentrations adjusted for apolipoprotein(a) isoforms.

9:50 - 10:10
Ko Willems van Dijk (Leiden, The Netherlands) 0056
Circulating cholesteryl ester transfer protein (CETP) concentration: a genome-wide association study followed by mendelian randomization on coronary artery disease.

10:10 - 10:30
Natalia Loaiza (Groningen, The Netherlands)* 0063
Exploring the role og STAP1 in cholesterol metabolism: characterization of STAP1 knock-out mice and screening for mutations in humans.

10:30 - 11:00
Coffee break

11:00 - 11:20
Antoine Rimbert (Groningen, The Netherlands* 0074
A genetic variant in the CCC component CCDC93 is associated with reduced plasma LDL-c and myocardial infarction in man.

11:20 - 11:40
Emilie Kjeldsen (Copenhagen, Denmark) * 0088
ABCA7 and risk of dementia, ischemic heart- and cerebrovascular disease.

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Program Wednesday Sept 6th (continued)

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

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## Program Thursday Sept 7th

**Session:** Varia  
Chairpersons: Katarina Öörni (Helsinki, Finland) and Jan Borén (Gothenburg, Sweden)

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