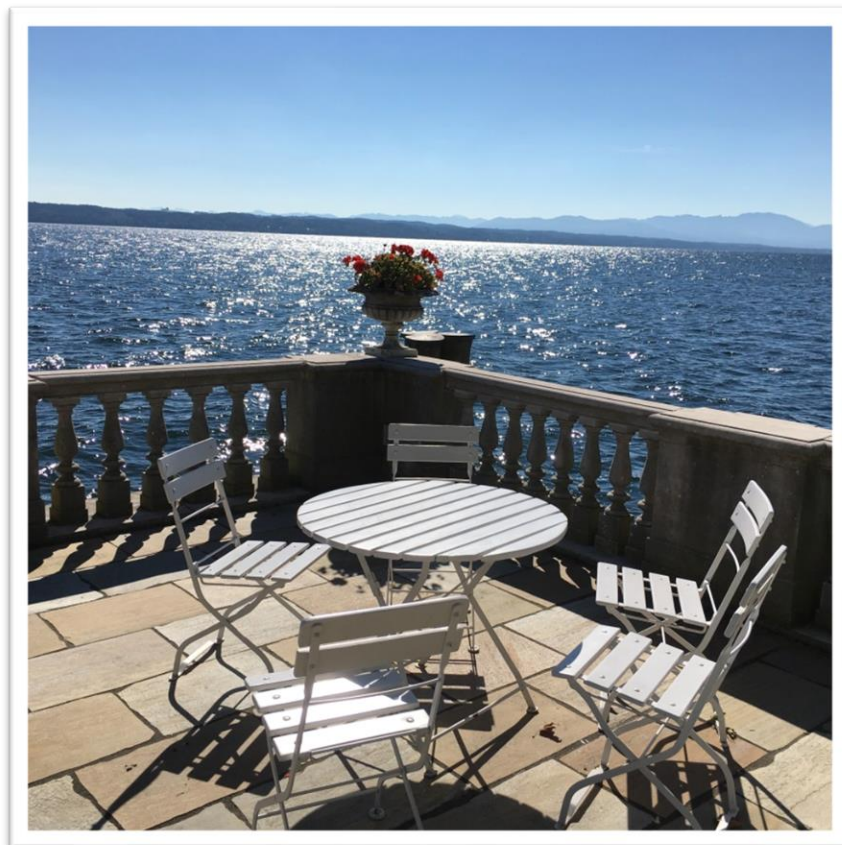




European Lipoprotein Club

45th Annual Scientific Meeting
September 05-08, 2022



Evangelische Akademie
Tutzing, Germany

Monday Sep 05

12:00 - 13:50	Arrival, registration & lunch
13:50 - 14:00	Welcome <i>Patrick Rensen (Leiden, The Netherlands)</i>
Session:	Hepatosteatorosis & Lysosomal dysfunction <i>Chairperson: Nicola Ferri (Padova, Italy)</i>
14:00 - 14:30	Invited speaker: Ronit Shiri-Sverdlov (Maastricht, The Netherlands) <i>Far beyond lysosomes: role of lysosomal dysfunction in NASH and related diseases</i>
14:30 - 14:45	Martina Derler (Vienna, Austria) * <i>The role of platelets in ER stress-induced hepatic steatosis</i>
14:45 - 15:00	Valentina Bianco (Graz, Austria) * <i>Impact of (intestinal) LAL deficiency on lipid metabolism, immune cell infiltration and gut microbiota</i>
15:00 - 15:15	Sander Kooijman (Leiden, The Netherlands) <i>Selective inhibition of DHCR24 ameliorates hepatic steatosis and inflammation through LXRA without inducing hyperlipidemia</i>
15:15 - 15:30	Anja Zeigerer (Munich, Germany) <i>Tsg101 regulates hepatocellular inflammation in end-stage liver diseases</i>
15:30 - 15:45	Martin Bürger (Graz, Austria) <i>Loss of MMP-12 alters immune cell composition in lysosomal acid lipase deficient mice</i>
15:45 - 16:00	Thorsten Hornemann (Zurich, Switzerland) <i>Metabolic indicators of an altered sphingolipid metabolism are biomarkers for non-alcoholic fatty liver disease</i>
16:00 - 16:30	Coffee break

* Eligible for Young Investigator Oral Award

Monday Sep 05

Session:	50 years after Brown and Goldstein
	<i>Chairperson: Bart van de Sluis (Groningen, the Netherlands)</i>
16:30 - 16:45	Karsten Motzler (Munich, Germany) * Regulation of lipoprotein metabolism by the endosomal membrane tether Vps33b
16:45 - 17:00	Dyonne Vos (Groningen, The Netherlands) * The endosomal sorting protein VPS35 is a gatekeeper of hepatic cholesterol homeostasis
17:00 - 17:15	Sebastian Hendrix (Amsterdam, The Netherlands) * SPRING1 is required for proper functioning of SREBP mediated lipid synthesis
17:15 - 17:30	Fabrizia Bonacina (Milan, Italy) The LDL receptor fuels cholesterol-MTORC1 axis during CD8 T cell activation
17:30 - 17:45	Andrej Gorbatenko (Amsterdam, The Netherlands) Novel mammalian membrane saturation sensors to study lipoprotein uptake and lipid metabolism
17:45 - 18:00	Marina Barros-Pinkelnig (Innsbruck, Austria) * LDL improves outcome from infection with <i>S. typhimurium</i> by altering anti-microbial oxidative stress response
18:00 - 18:15	Suzanne van Wouw (Amsterdam, The Netherlands) * Multi-omic profiling of LXR activation identifies FALL as a sterol-inducible lysoplasmalogenase in macrophages
18:15 - 18:30	Noam Zelcer (Amsterdam, The Netherlands) Development of structure-guided IDOL inhibitors for treating dyslipidemia and metabolic disease
18:30 - 19:30	Dinner
20:00 - 21:00	Keynote Lecture <i>Chairperson: Patrick Rensen (Leiden, The Netherlands)</i> Jens Brüning (Cologne, Germany) Lipid-dependent regulation of mitochondrial function in obesity
21:00 - 24:00	Bar open

* Eligible for Young Investigator Oral Award

Tuesday Sep 06

07:30 - 08:30

Breakfast

Session:

From cell identity to cell function

Chairperson: Pirkka-Pekka Laurila (Helsinki, Finland)

08:30 - 09:00

Invited speaker: Giovanni d'Angelo (Lausanne, Switzerland)

Studying cell identity through single-cell lipidomics

09:00 - 09:15

Kristina Then (Munich, Germany) *

Obesity-induced mitochondrial alterations in epididymal adipocytes persist after weight reduction in mice

09:15 - 09:30

Lorenzo Da Dalt (Milan, Italy) *

Unveiling the role of hepatic OPA1 and mitochondrial dynamics on dietary lipid metabolism

09:30 - 09:45

Anna Jung (Munich, Germany) *

SHB is a novel regulator of insulin signaling and adipocyte function

09:45 - 10:00

Cristy Verzijl (Groningen, The Netherlands) *

The insulin receptor is a novel substrate of GALNAC-T2 dependent glycosylation

10:00 - 10:15

Ana Bici (Munich, Germany) *

Epigenetic screening identifies PMEPA1 as a novel regulator of adipocyte function and energy metabolism

10:15 - 10:30

Anahita Ofoghi (Munich, Germany) *

Regulation of thermogenic capacity by posttranslational processing of NFE2L1 in adipocytes

10:30 - 11:00

Coffee break

** Eligible for Young Investigator Oral Award*

Tuesday Sep 06

Session:

Thermogenesis

Chairperson: Alexander Bartelt (Munich, Germany)

11:00 - 11:15

Zhixiong Ying (Leiden, The Netherlands) *

Mirabegron activates thermogenic tissues to increase atherosclerosis only in absence of a functional hepatic APOE-LDLR pathway

11:15 - 11:30

Michelle Jaeckstein (Hamburg, Germany) *

Purinergic adipocyte-macrophage crosstalk promotes degeneration of thermogenic brown adipose tissue

11:30 - 11:45

Alba Mena Gómez (Munich, Germany) *

Ferroptosis suppressor protein-1 regulates the NFE2L1-proteasome pathway in brown fat

11:45 - 12:00

Josef Oeckl (Munich, Germany) *

Loss of UCP1 function augments recruitment of futile lipid cycling for thermogenesis in murine brown fat

12:00 - 12:15

Janina Behrens (Hamburg, Germany) *

Role of CHREBP α in brown adipose tissue lipid metabolism and fuel selection

12:15 - 12:30

Carolin Muley (Munich, Germany) *

Adipocyte-NFE2L1 protects from cholesterol-induced lipodystrophy and atherosclerosis

12:30 - 13:30

Lunch

13:30 - 15:30

Networking (OC Meeting)

Session:

Cardiometabolic health, new targets ...

Chairperson: Kevin Jon Williams (Philadelphia, USA)

16:00 - 16:30

Invited speaker: Fredrik Bäckhed (Gothenburg, Sweden)

Gut microbiota and cardiometabolic health

16:30 - 16:45

Wilfried Le Goff (Paris, France)

Critical role of adipocyte ABCG1 expression in metabolic disorders induced by diet-induced obesity

16:45 - 17:00

Stefan Kotschi (Munich, Germany) *

The oxidative stress response in obesity is mediated by adipocyte NFE2L2

** Eligible for Young Investigator Oral Award*

Tuesday Sep 06

- 17:00 - 17:15 **Umesh Tharehalli (Groningen, The Netherlands) ***
Do GPR146 and ANGPTL3 operate through the same pathway?
- 17:15 - 17:30 **Mingjuan Deng (Wageningen, The Netherlands) ***
ANGPTL4 silencing via antisense oligonucleotides reduces plasma triglycerides and glucose in mice without causing lymphadenopathy
- 17:30 - 17:45 **Mehvash Godiwala (Kuopio, Finland)**
GCKR in the risk of metabolic dysregulation and diabetes
- 17:45 - 18:00 **Wietse In het Panhuis (Leiden, The Netherlands) ***
Pharmacological treatment with designer cytokine and exercise mimetic IC7Fc reduces atherosclerosis development
- 18:00 - 19:00 **Dinner**
- 19:00 - 22:00 **Wine and Poster Science**
- 22:00 - 24:00 **Bar open**

Wednesday Sep 07

07:30 - 08:30

Breakfast

Session:

Genetics and risk factors

Chairperson: Ruth Frikke-Schmidt (Copenhagen, Denmark)

08:30 - 09:00

Invited speaker: Minna Kaikkonen-Määttä (Kuopio, Finland)

Genomic landscapes of non-coding RNA and impact on cardiovascular disease

09:00 - 09:15

Andrea Baragetti (Milan, Italy)

Proteomic markers in genetically determined familial hypercholesterolemia

09:15 - 09:30

Jiao Luo (Copenhagen, Denmark) *

High blood neutrophil counts and ischemic vascular diseases: observational and genetic studies

09:30 - 09:45

Laurent Martinez (Toulouse, France)

The ATPase inhibitory factor 1 (IF1): Association with type 2 diabetes risk in human population and role in metabolic dysfunctions in mice

09:45 - 10:00

Sofie Taageby Nielsen (Copenhagen, Denmark) *

Impact of preeclampsia on cardiovascular risk factors in mothers and newborns

10:00 - 10:15

Markus Heine (Hamburg, Germany)

Longterm metabolic risk and senescence in adults born very preterm

10:15 - 10:30

Ko Willems van Dijk (Leiden, The Netherlands)

Genetics of age-dependent bodyweight trajectories

10:30 - 11:00

Coffee break

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Wednesday Sep 07

Session:

Lipoproteins

Chairperson: Christina Christoffersen (Copenhagen, Denmark)

11:00 - 11:15

Jennifer Härdfeldt (Stockholm, Sweden) *

Transvascular interstitial fluid-to-serum ratios of lipoproteins in cardiovascular health and disease

11:15 - 11:30

Sofia Kakava (Zurich, Switzerland)

Apolipoprotein E defines HDL trafficking in brain endothelial cells

11:30 - 11:45

Boyan Zhang (Groningen, The Netherlands) *

GPR146 and HDL metabolism

11:45 - 12:00

Kathrin Frey (Zurich, Switzerland) *

Decoding the dynamic HDL synapse receptor landscape

12:00 - 12:15

Katariina Öörni (Helsinki, Finland)

Hepatic sphingolipid metabolism contributes to LDL lipid composition and the susceptibility of LDL to aggregation

12:15 - 12:30

Günter Müller (Oberschleissheim, Germany)

Intercellular transfer of GPI-anchored proteins in lipoprotein-like particles stimulates lipid and glycogen synthesis in human adipocytes and erythroleukemia cells

12:30 - 13:30

Lunch

Session:

From diet to thermogenesis

Chairperson: Stefan Nilsson (Umea, Sweden)

14:00 - 14:15

Andreas Prokesch (Graz, Austria)

p53 shapes adipose tissue immune cell infiltration upon intermittent fasting in obese mice

14:15 - 14:30

Renate Schreiber (Graz, Austria)

Living in the cold without brown adipose tissue lipolysis

14:30 - 14:45

Joerg Heeren (Hamburg, Germany)

The synthetic bile acid derivative norUDCA impairs mitochondrial function and adaptive thermogenesis

** Eligible for Young Investigator Oral Award*

Wednesday Sep 07

14:45 - 16:00

General Assembly

17:30 - 23:00

Anniversary social event & YI Awards

23:00 - late

Bar open

Thursday Sep 08

07:30 - 09:30

Breakfast

09:30 - 12:00

Departure

Posters

- 01 Melina Amor (Graz, Austria)
MMP12 DELETION AMELIORATES CARDIOMETABOLIC DISEASE
- 02 Isabel Arigoni (Munich, Germany) *
PROTEASOME DYSFUNCTION DISRUPTS ADIPOGENESIS AND INDUCES INFLAMMATION VIA ATF3
- 03 Yara Azar (Paris, France) *
FROM FATTY STREAKS TO CULPRIT LESIONS, THE IMPACT OF PCSK9 ON HUMAN ATHEROSCLEROTIC LESIONS THROUGH SMOOTH MUSCLE CELLS FUNCTIONS
- 04 Line Bisgaard (Copenhagen, Denmark)
APOLIPOPROTEIN M AND RETINOID METABOLISM
- 05 Johanna Bruder (Freising, Germany) *
MATERNAL HOUSING TEMPERATURE AND DIET – PROGRAMMING EFFECTS ON BROWNING CAPACITY IN FEMALE AND MALE OFFSPRING
- 06 Oliver Eckel (Vienna, Austria) *
SR-B1 AND ITS ROLE IN THE CHOLESTEROL SYNTHESIS PATHWAY OF MELANOMA CELLS
- 07 Gabriela Florea (Rio Achaïas, Greece) *
RECOMBINANT ADENOVIRUSES ENCODING APOLIPOPROTEIN-AII TRUNCATED FORMS
- 08 Xiaoke Ge (Leiden, The Netherlands) *
PHARMACOLOGICAL DHCR24 INHIBITION TO INCREASE DESMOSTEROL REDUCES CIRCULATING LEUKOCYTES WITHOUT INDUCING HYPERLIPIDEMIA
- 09 Sebastian Graute (Hamburg, Germany) *
MATERNAL OVERWEIGHT ALTERS CORD BLOOD BUT NOT MATERNAL PLASMA BILE ACID POOL HYDROPHOBICITY
- 10 Anouk Groenen (Groningen, Netherlands) *
HIGH ADVANCED GLYCATION END PRODUCTS ASSOCIATE WITH MONOCYTOSIS IN DIABETES: A CROSS SECTIONAL STUDY IN THE POPULATION-BASED LIFELINES COHORT
- 11 Joel Guerra (Jena, Germany) *
HEME OXYGENASE-1 PROTECTS FROM HEME-INDUCED TISSUE INFLAMMATION AND METABOLIC COLLAPSE BY PROMOTING REDOX HOMEOSTASIS AND NADPH PRODUCTION
- 12 Jan Albert Kuivenhoven (Groningen, Netherlands)
A ROLE FOR GPR146 IN HEPATIC AUTOPHAGY
- 13 Yun Kwon (Munich, Germany) *
DEVELOPMENT OF A PRIMARY HUMAN HEPATOCYTE IN VITRO MODEL SYSTEM FOR STUDYING NAFLD PATHOPHYSIOLOGY AND DRUG RESEARCH
- 14 Imke Lemmer (Munich, Germany) *
NFE2L1-MEDIATED PROTEASOME FUNCTION IN SKELETAL MUSCLE REGULATES AMINO ACID METABOLISM AND ENERGY EXPENDITURE IN OBESITY
- 15 Dunja Leskovar (Zagreb, Croatia) *
PCSK-9 INHIBITORS AND THE REDUCTION OF SERUM LIPOPROTEIN (A) LEVELS: EXPERIENCE OF THE REFERENCE CENTER

Posters

- 16 Adam Majcher (Zurich, Switzerland) *
TYPE 2 DIABETES CAUSES ELEVATION OF NEUROTOXIC 1-DEOXYSPHINGOLIPIDS IN SKIN AND PLASMA: A NEW CAUSAL MECHANISM OF DIABETIC NEUROPATHY
- 17 Leonardo Matta (Munich, Germany) *
CHRONIC AEROBIC EXERCISE IMPROVES REDOX HOMEOSTASIS AND MITOCHONDRIAL FUNCTION IN WHITE ADIPOSE TISSUE
- 18 Amber Meurs (Amsterdam, Netherlands) *
GENOME-WIDE CRISPR-CAS9 SCREEN TO IDENTIFY NEW PROTEINS INVOLVED IN INTRACELLULAR CHOLESTEROL TRANSPORT
- 19 Klevis Ndoj (Amsterdam, Netherlands) *
GENOME-WIDE FUNCTIONAL GENETIC APPROACHES TO IDENTIFY NOVEL REGULATORS OF NIEMAN PICK TYPE C1 (NPC1) PROTEIN
- 20 Stefan Nilsson (Umeå, Sweden)
ANGPTL4 - THE MOST PROMISING NEW OLD LIPID TARGET THERE IS
- 21 Raimund Oberle (Vienna, Austria)
OXIDIZED LDL INCREASES THE IMMUNOSUPPRESSIVE PROPERTIES OF MYELOID-DERIVED SUPPRESSOR CELLS
- 22 Alice Ossoli (Milano, Italy)
GENETICALLY DETERMINED DEFICIENCY OF ANGPTL3 DOES NOT ALTER HDL ABILITY TO PRESERVE ENDOTHELIAL HOMEOSTASIS
- 23 Ludger Scheja (Hamburg, Germany)
EFFICIENT SARS-COV-2 REPLICATION IN ADIPOCYTES IS TIGHTLY LINKED TO CELLULAR LIPID METABOLISM
- 24 Malik Taradeh (Paris, France) *
ENRICHMENT OF HDL WITH PHOSPHATIDYLETHANOLAMINE (36:5) IMPAIRS THEIR PROTECTIVE BIOLOGICAL ACTIVITIES AND IS ASSOCIATED WITH ATHEROSCLEROSIS IN WOMEN
- 25 Liv Tybjærg Nordestgaard (Copenhagen, Denmark) *
BODY MASS INDEX AND RISK OF NON-ALZHEIMER DEMENTIA
- 26 Nienke Willemsen (Munich, Germany) *
NFE2L1 IN MYF5+ PROGENITORS CONTROLS MUSCLE DEVELOPMENT AND BROWN FAT ADAPTATION
- 27 Kevin Williams (Philadelphia, USA)
CHALLENGING THE 50-50 RULE FOR THE BASAL-BOLUS INSULIN RATIO IN PATIENTS WITH TYPE 2 DIABETES WHO MAINTAIN STABLE GLYCEMIC CONTROL