



ONLINE CONGRESS - PROGRAM

27. Annual Meeting of the
AAS – Austrian Atherosclerosis Society

September 4, 2020

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- **09:00 – 09:15 Welcome Address**

Christoph Binder

- **09:15 – 10:00 Keynote Lecture I**

Chair: Gerit-Holger Schernthaner

“Immunometabolic fabric in atherosclerosis: new insights on macrophage glutaminolysis”

Speaker: Laurent Yvan-Charvet

UMR INSERM U1065/UNS, C3M, Bâtiment Universitaire
ARCHIMED, 151 route Saint Antoine de Ginestière,
BP 2 3194 06204 Nice, France

- **10:00-10:50 Workshop 1: Vascular Biology**

[Talk 7 min + 3 min Discussion]

Chair: Johannes Schmid

Ranolazine induced modulation of intracellular Na⁺ concentration impacts inflammatory response and reduces atherosclerotic plaque progression

Max Lenz, Christoph Kaun, Konstantin A. Krychtiuk, Andreja Rehberger Likozar, Miran Sebestjen, Laura Goederle, Sabine Rauscher, Zoriza Krivaja, David A. Morrow, Sabina A. Murphy, Christoph J. Binder, Kurt Huber, Christian Hengstenberg, Johann Wojta, Philipp J. Hohensinner, Walter S. Speidl

Tenascin C promotes cardiac fibrosis and vascular endothelial dysfunction in a mouse model of diabetes

Attila Kiss, Zsuzsanna Arnold, Eylem Acar, Simon Watzinger, Ibrahim Aykac, Felix Nagel, Petra Lujza Szabo, Alexander J. Fee, Anras Josvai, Fruzsina Balogh, Maria Szekeres, György Nádasy, Bruno K. Podesser

Modifications of microRNAs determine their function in vascular remodelling

Reginald V.C.T. van der Kwast, Paul H.A. Quax, A. Yaël Nossent

Release of extracellular matrix protein biglycan triggers aortic valve calcification

Can Gollmann-Tepeköylü, Michael Graber, Jakob Hirsch, Andreas Naschberger, Leo Pölzl, Felix Nägele, Gerald Degenhart, Egon Demetz, Richard Hilbe, Hao Yu Chen, Jamie Engert, Daniela Lobenwein, Daniela Lener, Christiane Fuchs, Sonja Töchterle, Georg Vogel, Peter Pietschmann, Markus Seifert, Florian Kronenberg, Stefan Coassin, Michael Blumer, Hubert Hackl, Dirk Meyer, Gudrun Feuchtner, Rudolf Kirchmair, Jakob Troppmair, Günter Weiss, Sotirios Tsimikas, George Thanassoulis, Michael Grimm, Bernhard Rupp, Lukas Huber, Ivan Tancevski, Johannes Holfeld

Endothelial progerin induces systemic effects through senescence and microRNA-associated SASP

Christina Manakanatas, Azra Agic, Christian Pacheco Martínez, Katharina Hausknost, Irmgard Fischer, Petra Fichtinger, Herbert Stangl, Markus Hengstschläger, Johannes Grillari, Roland Foisner, Selma Osmanagic-Myers

- **10:50 – 11:15 Coffee Break**



- **11:15 – 12:15 Workshop 2: Myeloid Cells** [Talk 7 min + 3 min Discussion]
Chair: Dagmar Kratky

Circulating levels of proprotein convertase subtilisin/kexin type 9 (PCSK-9) are associated with monocyte subsets in patients with stable coronary artery disease

Konstantin A. Krychtiuk, Max Lenz, Philipp J. Hohensinner, Mira Brekalo, Stefan P. Kastl, Stefan Pfaffenberger, Sebastian L. Hofbauer, Kurt Huber, Christian Hengstenberg, Johann Wojta, Walter S. Speidl

Neutrophil extracellular traps induce MCP-1 release from endothelial cells at the plaque rupture site in acute myocardial infarction

Anna S. Ondracek, Thomas M. Hofbauer, Andreas Mangold, Thomas Scherz, Veronika Seidl, Irene M. Lang

Haematopoietic TREM2 deficiency Promotes atherosclerosis and Modulates Immune cell composition in LDLR^{-/-} mice

Florentina Porsch, Máté Kiss, Tim Hendrikx, Laura Göderle, Anastasiya Hladik, Dennis Wolf, Sylvia Knapp, Christoph J. Binder

HDL cholesterol efflux capacity is inversely associated with subclinical cardiovascular risk markers in young adults. The cardiovascular risk in Young Finns

Monika Hunjadi, Claudia Lamina, Patrick Kahler, Tamara Bernscherer, Jorma Viikari, Terho Lehtimäki, Mika Kähönen, Mikko Hurme, Markus Juonala, Leena Taittonen, Tomi Laitinen, Eero Jokinen, Päivi Tossavainen, Nina Hutri-Kähönen, Olli Raitakari, Andreas Ritsch

Cathepsin G bypasses the classic renin angiotensin system, leading to enhanced neutrophil extracellular trap formation

Noel G. Panagiotides, Thomas M. Hofbauer, Anna S. Ondracek, Christian Feist, Andreas Mangold, Robert Winker, Irene M. Lang

Pharmacological Inhibition of Fatty Acid Oxidation reduces Inflammation in Macrophages in vitro and in vivo

Hohensinner Philipp, Lenz Max, Haider Patrick, Maier Julia, Richter Manuela, Kaun Christoph, Goederle Laura, Brekalo Mira, Fischer Michael, Stojkovic Stefan, Hengstenberg Christian, Huber Kurt, Binder Christoph, Wojta Johann, Speidl Walter

- **12:15 – 13:00 Lunch Break**



- **13:00 – 14:00 Workshop 3: Cholesterol and Triglyceride Metabolism**
Chair: Bernhard Paulweber [Talk 7 min + 3 min Discussion]

miR-33 is a master regulator of B cell homeostasis

Dimitrios Tsiantoulas, Andrew P. Sage, Florentina Porsch, Marc Clement, James Harrison, Nathan Price, Marcella K L Ma, Brian Y H Lam, Stephen A. Newland, Christoph J. Binder, Carlos Fernández-Hernando, Ziad Mallat

Lipid dys-homeostasis and the control of bacterial infection by macrophages

Marina Barros-Pinkelning, Egon Demetz, Christine Fischer, Julia Halper, Laura von Raffay, Richard Hilbe, Ivan Tancevski, Günter Weiss

Kupffer cells critically affect cholesterol metabolism

Egon Demetz, Piotr Tymoszek, Richard Hilbe, Christiane Heim, Kristina Auer, Marina Barros-Pinkelning, Laura von Raffay, Ivan Tancevski, Guenter Weiss

Potential beneficial effects of intestinal atgl overexpression

Melanie Korbilius, Nemanja Vujic, Silvia Rainer, Dagmar Kratky

Novel role for intracellular lipases in platelets

Madeleine Goeritzer, Stefanie Schlager, Nemanja Vujic, Silvia Rainer, Dagmar Kolb, Marion Mussbacher, Axel Schlagenhauf, Harald Haidl, Corina T. Madreiter-Sokolowski, Wolfgang F. Graier, Dagmar Kratky

Lysosomal acid lipase deficiency affects mouse placenta and unborn fetus

Katharina B. Kuentzel, Silvia Rainer, Nemanja Vujic, Dagmar Kratky

- **14:00 – 14:45 Keynote Lecture II**

Chair: Andreas Zirlik

“Obesity and atherosclerosis: conversations between fat and the plaque”

Speaker: Edward A. Fisher, MD, PhD
The Center for the Prevention of Cardiovascular Disease
NYU School of Medicine, New Science Building 705,
435 East 30th St., New York, NY 10016, USA

- **14:45 – 15:15 Coffee Break**



- **15:15 – 16:15 Workshop 4: Risk factors/biomarkers for atherosclerosis**
Chair: Christoph Ebenbichler [Talk 7 min + 3 min Discussion]

Value of Total Cholesterol Earlier versus Later in Life to Predict Cardiovascular Death

Andreas Leiberer, Hanno Ulmer, Axel Muendlein, Christoph H. Saely, Alexander Vonbank, Peter Fraunberger, Bernhard Foeger, Wolfgang Brozek, Gabriele Nagel, Emanuel Zitt, Heinz Drexel, Hans Concini

Characterization of Two Novel Truncating Mutations in the ApoB Gene Leading to Hypobetalipoproteinemia: a Pilot Study

Clemens Engler, Monika Hunjadi, Andreas Ritsch, Christoph Ebenbichler

Progesterone promotes coronary artery dissection

Jakob Hirsch, Andre Volland, Aleksandar Nikolajevic, Michael Graber, Felix Nägele, Leo Pözl, Richard Hilbe, Michael Grimm, Johannes Holfeld, Can Gollmann-Tepeköylü

The association of plasma afamin concentrations with iron metabolism and anemia

Barbara Kollerits, Kai-Uwe Eckardt, Heike Meiselbach, Anna Köttgen, Günter Weiss, Bernhard Paulweber, Hans Dieplinger, Florian Kronenberg

Development of atherosclerosis under hyperhomocysteinemic conditions in a rabbit model

Gunter Almer, Peter Opriessnig, Clemens Diwojky, Markus Brunner, Wolfgang Oswald, Gerd Hörl, Gerhard Sommer, Heimo Wolinski, Sasa Frank, Gerald Hoefler, Gerhard A. Holzappel, Gerald N. Rechberger, Dagmar Kratky, Harald Mangge, Oksana Tehlivets

Blood-based biomarkers for the long-term prognosis after acute ischemic stroke – results from the Linz Stroke Unit (LISU) study

Margot Egger, Christoph Bocksrucker, Christian Bundschuh, Thomas Mueller, Benjamin Dieplinger

- **16:15 – 16:30 Coffee Break**

- **16:30 – 17:15 Keynote Lecture III**

Chair: Florian Kronenberg

“Impact of cardiovascular risk factors and polygenic risk score for dementia”

Speaker: **Ruth Frikke-Schmid**
Professor, Chief Physician, MD, DMSc, PhD
Department of Clinical Biochemistry, Rigshospitalet, Blegdamsvej 9,
2100 Copenhagen, Denmark

- **17:15 Update on FH-registry**
Paper and Presentation Awards – sponsored by NOVO NORDISK
Closing remarks
AAS General Assembly (Members only)

