

Amsterdam Cardiovascular Sciences

# 9<sup>th</sup> Annual ACS symposium

Thursday December 7, 2023

Felix Meritis, Keizersgracht 324, Amsterdam

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| 08.15-09.00 | Registration   |
| 09.00-09.50 | <b>Opening</b><br>Chairs: dr. Malou van den Boogaard & dr. Vincent Jongkind<br>Concertzaal   |
| 09.00-09.05 | Introduction by ACS directors: prof. dr. Jolanda van der Velden & prof. dr. Arthur Wilde   |
| 09.05-09.50 | <b>Keynote 1: Prof. dr. Norbert Hübner (Max Delbrück Center Berlin)</b><br><i>Novel, Short, Small &amp; Young: microproteins in the human heart and beyond</i>   |
| 09.50-10.15 | <b>Orals session 1</b><br>Chairs: dr. Nick van Es & dr. Stefan Smorenburg<br>Concertzaal   |
|             | <b>1 Erik Duijvelaar</b><br><i>Empagliflozin improves mitochondrial biogenesis and ameliorates vascular remodeling in experimental pulmonary arterial hypertension</i>   |
|             | <b>2 Eva Aalbrecht</b><br><i>Four Dimensional Flow MRI-derived Hemodynamics in Abdominal Aortic Aneurysms: Reproducibility and Associations with Diameter, Intraluminal Thrombus Volume and Vorticity</i>      |
| 10.15-10.30 | <b>Pitch poster session 1 (Even abstract numbers)</b><br>Chair: dr. Annette Neele<br>Concertzaal   |
|             | <b>10 Alexandra Giovou</b><br><i>Postnatal ventricular regeneration in congenital heart disease: function and application of TBX5 for promoting cardiomyocyte proliferation</i>                                |
|             | <b>12 Thomas Steunenbergh</b><br><i>Clinical outcomes of 5 000 IU heparin versus activated clotting time guided heparinization during non-cardiac arterial procedures: a propensity score matched analysis</i> |
|             | <b>14 Beau Neep</b><br><i>Understanding the role of SOX17 in the shear stress response of the arterial endothelium and its implication in early Pulmonary Arterial Hypertension development</i>                |
|             | <b>16 Benthe Ariëns</b><br><i>The effect of SGLT2-inhibition on the kidney perfusion and diffusion in patients with T2D</i>  |
| 10.30-11.25 | <b>Poster session 1 with coffee (Even abstract numbers)</b><br>Shaffyzaal  |

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| 11.25-12.10 | <b>Keynote 2: Prof. dr. Peter Libby, MD (Brigham and Women's Hospital and Harvard Medical School, United States)</b><br><i>Clonal Hematopoiesis and Cardiovascular Disease</i><br>Chairs: prof. dr. Fabrice Martens & dr. Jeffrey Kroon<br>Concertzaal         |
| 12.10-12.30 | <b>Pitch poster session 2 (Odd abstract numbers)</b><br>Chair: dr. Vincent Jongkind<br>Concertzaal   |
|             | <b>9 Mick Renkens</b><br><i>The Enduring Hiatus Between Clinical Guidelines and Clinical Practice in Appropriate Lipid-Lowering Therapy Still Affects a Third of Patients Undergoing PCI in Europe: Insights from PIONEER IV and Multivessel Talent Trials</i> |
|             | <b>11 Anoek Rooijackers</b><br><i>Long-range gene editing of LMNA</i>  |
|             | <b>13 Carolien Volleman</b><br><i>Endothelial activation in COVID-19 induced ARDS patients on ECMO support: a pilot study</i>  |
|             | <b>15 Sarah Hilderink</b><br><i>Hypertrophic cardiomyopathy evident at an early age in knock-in mice with the most common Dutch founder mutation, MYBPC3c.2373InsG</i>   |
|             | <b>17 Jordan Kraaijenhof</b><br><i>Targeting apolipoprotein C-III with olezarsen leads to significant reduction in fasted and postprandial triglyceride levels</i>   |
|             | <b>19 Rushd Al-Shama</b><br><i>Myeloperoxidase causes arrhythmogenic remodeling in cardiac slices</i>  |
| 12.30-13.30 | <b>Lunch</b><br>Zuilenzaal   |
| 13.30-14.15 | <b>Poster session 2 (odd abstract numbers)</b><br>Shaffyzaal   |
| 14.15-14.45 | <b>Plenary session: Valorisation</b><br>Chair: prof. dr. Folkert Asselbergs<br>Concertzaal   |
| 14.15-14.30 | <b>Philip Croon</b><br><i>DGLT Health: utilizing artificial intelligence to accommodate 20,000 helters per year</i>  |
| 14.30-14.45 | <b>Prof. dr. Dave Koolbergen</b><br><i>The Haermonics story</i>  |
| 14.45-15.30 | <b>Orals session 2</b><br>Chairs: dr. Marielle van de Veerdonk & dr. Elena Rampanelli<br>Concertzaal   |
|             | <b>3 Lieve van der Maarel</b><br><i>Altered chromatin conformation drives ectopic PITX2 expression and sinoatrial node dysfunction in unrelated families presenting with a novel cardiac syndrome</i>  |
|             | <b>4 Luca Deursen</b><br><i>Microvascular endothelial dysfunction in skin is associated with higher risk of heart failure with preserved ejection fraction in women with type 2 diabetes: the Hoorn Diabetes Care System Cohort</i>                            |
|             | <b>5 Charlotte Teunis</b><br><i>Tryptophan Metabolites and Incident Cardiovascular Disease</i>   |
|             | <b>6 Ed Eringa</b><br><i>Peritoneal dialysis aggravates and accelerates atherosclerosis in</i>   |

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|                      | <i>uraemic ApoE-/- mice</i>  |
| 15.30-16.00          | Break<br>Zuilenzaal  |
| <b>16.00 - 16.25</b> | <b>Orals session 3</b><br>Chairs: dr. Nick van Es & Stefan Smorenburg<br>Concertzaal   |
|                      | <b>7 Sha Chen</b><br><i>Empagliflozin prevents diastolic and systolic dysfunction in heart failure and reduces cardiac NHE1 activity, independent of SGLT2</i>   |
|                      | <b>8 Mitchel Molenaar</b><br><i>Machine learning for risk stratification using clinical and echocardiography data in patients with chronic coronary syndrome</i> |
| <b>16.25-17.00</b>   | <b>Closing session</b><br>Chairs: dr. Annette Neele & dr. Malou van den Boogaard<br>Concertzaal  |
| 16.25-16.55          | <b>Dr. Richard van Duin (Dutch Heart Foundation)</b><br><i>Science communication: Breaking the black box</i>   |
| 16.55-17.00          | Introduction new ACS directors dr. Ronak Delewi & prof. dr. Menno de Winther   |
| 17.00-17.05          | Awards ceremony  |
| <b>17.05-18.00</b>   | <b>Reception</b><br>Zuilenzaal   |