



Heart Failure Association Winter Research Meeting 2021

Scientific programme

Wednesday, 20th January

13:00 - 13:10	<i>Thomas Thum & Andrew Coats: Welcome to Heart Failure Winter Meeting 2021</i>	10 min
13:10 - 14:20	<i>Session 1: The holy grail: reverse remodelling</i> <i>Chairpersons: Johann Bauersachs and Linda Van Laake</i>	70 min
13:10 - 13:20	<i>Thomas Thum: Reverse remodelling through targeting of noncoding RNAs</i>	10 min
13:20 - 13:30	<i>Arantxa Gonzalez Miqueo: Reverse remodelling: targeting fibrosis</i>	10 min
13:30 - 13:40	<i>Leon De Windt: Reverse remodelling: Novel targets</i>	10 min
13:40 - 13:50	<i>Petar Seferovic: Entresto and Reverse remodelling: clinical evidence</i>	10 min
13:50 - 14:20	Panel discussion: Why do only few drugs induce reverse remodelling?	30 min
14:20 - 14:30	Break	10 min
14:30 - 15:40	<i>Session 2: Heterogeneity of cardiac immune system</i> <i>Chairpersons: Ida Gjervold Lunde and Dana Dawson</i>	70 min
14:30 - 14:40	<i>Stephane Heymans: Stabilin-1 a stabilizer against myocarditis</i>	10 min
14:40 - 14:50	<i>Marinos Kallikourdis: Single-Cell Sequencing of Mouse Heart Immune Infiltrate in Pressure Overload-Driven Heart Failure Reveals Extent of Immune Activation.</i>	10 min
14:50 - 15:00	<i>Sophie Van Linthout: Immune-Related Therapies for Inflammatory Cardiomyopathy: bench to bedside.</i>	10 min
15:00 - 15:40	Panel discussion: Heterogeneity of cardiac immune system.	40 min
15:40 - 15:50	Break	10 min
15:50 - 17:00	<i>Session 3: Impact of Sars-Cov-2 on the cardiovascular system</i> <i>Chairpersons: Antonio Bayes Genis and Yigal Pinto</i>	70 min
15:50 - 16:00	<i>Marco Metra: Sars-Cov-2 in cardiovascular patients, general overview from the clinical perspective.</i>	10 min
16:00 - 16:10	<i>Tomasz Guzik: Sars-Cov-2 and the renin-angiotensin system</i>	10 min
16:10 - 16:20	<i>Yibin Wang: Sars-Cov-2 targeting the vascular and coagulation system.</i>	10 min
16:20 - 16:30	<i>Nuria Montserrat: Inhibition of SARS-CoV-2 infections in engineered human tissues using clinicalgrade soluble human ACE2. Usefulness of human organoids.</i>	10 min



16:30 - 17:00	Panel discussion: How will COVID19 shape CV research?	30 min
17:00 - 17:10	Break	10 min
17:10 - 17:45	<i>Special lecture: Hematopoiesis and CV disease</i>	35 min
17:10 - 17:30	<i>Matthias Nahrendorf: Hematopoiesis and CV disease.</i>	20 min
17:30 - 17:45	Panel discussion: Hematopoiesis and CV disease.	15 min
17:45 - 17:55	<i>Thomas Thum: Closing remarks</i>	10 min
<i>Post-closing remark: The Abstract sessions will be presented for closed audience by invitation only (Faculty and Abstract presenters)</i>		

Thursday, 21st January

13:30 - 13:40	<i>Thomas Thum & Andrew Coats: Welcome and Introduction</i>	10 min
13:40 - 14:50	<i>Session 1: New surgical weapons of the scientists: Gene editing and beyond.</i> <i>Chairpersons: Carlo Gabriele Tocchetti and Wolfram-Hubertus Zimmermann</i>	70 min
13:40 - 13:50	<i>Christian Kupatt: Targeting Duchenne muscular dystrophy.</i>	10 min
13:50 - 14:00	<i>Laura Zelarayan: CRISPR-Mediated Activation of Endogenous Gene Expression in the Postnatal Heart.</i>	10 min
14:00 - 14:10	<i>Lucie Carrier: Therapies for inherited cardiac diseases.</i>	10 min
14:10 - 14:50	<i>Panel discussion - New surgical weapons of the scientists: Gene editing and beyond.</i>	40 min
14:50 - 15:00	Break	10 min
15:00 - 16:10	<i>Session 2: How-to session on Reproducibility & Efficacy of animal and animal-free models in CVR.</i> <i>Chairpersons: Johannes Backs and Manuel Mayr</i>	70 min
15:00 - 15:10	<i>Serena Zacchigna: Strength of laboratory and companion animals to study heart failure.</i>	10 min
15:10 - 15:20	<i>Ines Falcao-Pires: Current state-of-the-art in studying valve disease: what's the best model?</i>	10 min
15:20 - 15:30	<i>Peipei Ping: Proteomics, Artificial Intelligence and cardiovascular disease.</i>	10 min
15:30 - 15:40	<i>Ulrich Dirnagl: Correctable causes for irreproducibility and translational attrition in preclinical biomedical research</i>	10 min
15:40 - 16:10	<i>Panel discussion - Do we need better quality in CV preclinical research?</i>	30 min



16:10 – 16:20	Break	10 min
16:20 - 17:10	Session 3: Contribution of non-cardiomyocytes to heart failure progression and therapy. <i>Chairpersons: Ajay M Shah and Stefan Engelhardt</i>	50 min
16:20 - 16:30	<i>Joerg Heineke:</i> The contribution of cardiac endothelial cells to fibrosis in HFpEF and HFrEF.	10 min
16:30 - 16:40	<i>Jennifer Davis:</i> Infarct collagen topography and fibroblast fate.	10 min
16:40 - 17:10	Panel discussion - What cell type contributes most to heart failure?	30 min
17:10 - 17:20	Break	10 min
17:20 - 18:20	Session 4: Metabolic flexibility of the heart <i>Chairpersons: Christoph Maack and Jean-Sebastien Hulot</i>	60 min
17:20 - 17:30	<i>Gary D Lopaschuk:</i> The heart as a metabolic omnivore.	10 min
17:30 - 17:40	<i>Oliver John Rider:</i> Cardiac Energetics in Patients With Aortic Stenosis and Preserved Versus Reduced Ejection Fraction.	10 min
17:40 - 17:50	<i>Alessandra Ghigo:</i> Cardiac Metabolism & Toxicity.	10 min
17:50 - 18:20	Panel discussion - Metabolic flexibility of the heart.	30 min
18:20 - 18:45	Closing Session <i>Chairpersons: Johannes Backs and Stephane Heymans</i>	25 min