

## Heart Failure Association Winter Research Meeting 2021

### Scientific Program

Thursday, 21<sup>st</sup> January

|                      |                                                                                                                                                                     |               |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 13:30 - 13:40        | <b>Thomas Thum &amp; Andrew Coats: Welcome and Introduction</b>                                                                                                     | <b>10 min</b> |
| <b>13:40 - 14:50</b> | <b>Session 1: New surgical weapons of the scientists: Gene editing and beyond.</b><br><i>Chairpersons: Carlo Gabriele Tocchetti and Wolfram-Hubertus Zimmermann</i> | <b>70 min</b> |
| 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        | <b>Panel discussion - New surgical weapons of the scientists: Gene editing and beyond.</b>                                                                          | 40 min        |
| 14:50 - 15:00        | Break                                                                                                                                                               | 10 min        |
| <b>15:00 - 16:10</b> | <b>Session 2: How-to session on Reproducibility &amp; Efficacy of animal and animal-free models in CVR.</b><br><i>Chairpersons: Johannes Backs and Manuel Mayr</i>  | <b>70 min</b> |
| 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        | <b>Panel discussion - Do we need better quality in CV preclinical research?</b>                                                                                     | 30 min        |
| 16:10 - 16:20        | Break                                                                                                                                                               | 10 min        |
| <b>16:20 - 17:10</b> | <b>Session 3: Contribution of non-cardiomyocytes to heart failure progression and therapy.</b><br><i>Chairpersons: Ajay M Shah and Stefan Engelhardt</i>            | <b>50 min</b> |
| 16:20 - 16:30        | <i>Joerg Heineke: The contribution of cardiac endothelial cells to fibrosis in HFpEF and HFrEF.</i>                                                                 | 10 min        |
| 16:30 - 16:40        | <i>Jennifer Davis: Infarct collagen topography and fibroblast fate.</i>                                                                                             | 10 min        |



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| 16:40 - 17:10        | <i>Panel discussion - What cell type contributes most to heart failure?</i>                                                   | 30 min        |
| 17:10 - 17:20        | <i>Break</i>                                                                                                                  | 10 min        |
| <b>17:20 - 18:20</b> | <b><i>Session 4: Metabolic flexibility of the heart</i></b><br><i>Chairpersons: Christoph Maack and Jean-Sebastien Hulot</i>  | <b>60 min</b> |
| 17:20 - 17:30        | <i>Gary D Lopaschuk: The heart as a metabolic omnivore.</i>                                                                   | 10 min        |
| 17:30 - 17:40        | <i>Oliver John Rider: Cardiac Energetics in Patients With Aortic Stenosis and Preserved Versus Reduced Ejection Fraction.</i> | 10 min        |
| 17:40 - 17:50        | <i>Alessandra Ghigo: Cardiac Metabolism &amp; Toxicity.</i>                                                                   | 10 min        |
| 17:50 - 18:20        | <i>Panel discussion - Metabolic flexibility of the heart.</i>                                                                 | 30 min        |
| <b>18:20 - 18:45</b> | <b><i>Closing Session</i></b><br><i>Chairpersons: Johannes Backs and Stephane Heymans</i>                                     | <b>25 min</b> |