

9th EU-CARDIOPROTECTION COST Action Final MC/WG meeting

April 2-4 2022, Coimbra, Portugal

Cost Action CA16225

Chair:
Derek Hausenloy
(UK)

Vice Chair:
Peter Ferdinandy
(Hungary)

WG1: New Targets
Ioanna Andreadou
(Leader, Greece)
Derek Hausenloy
(Co-leader, UK)

**WG2: Combination
Therapy**
Sean Davidson
(Leader, UK)
Marisol Ruiz-Meana
(Co-leader, Spain)
Attila Kiss
(Co-leader, Austria)

WG3: Confounders
Rainer Schulz
(Leader, Germany)
Peter Ferdinandy
(Co-leader, Hungary)
Alina Scridon
(Co-leader, Romania)

WG4: Consortium
Hans Erik Botker
(Leader, Denmark)
Gerd Heusch
(Co-leader, Germany)
Jacob Lonborg
(Co-leader, Denmark)

STSM Chair:
Coert Zuurbier
(Netherlands)

**Science Communications
Manager:**
Jelena Jovanic
(Bosnia)

Webmasters:
Søren Erik Pischke
(Norway)

Grant Manager:
Beatrix Sereg (Hungary)



Meeting Venue
University of Coimbra

Program committee
COST Action Core Group committee

Local organising committee
Henrique Girao
Tania Marques

Saturday Apr 2nd 2022

- 7:30-8:30 COST Core Grp meeting (closed meeting)
- 8:00-8:30 Registration and put posters up
- 8:30-9:00 **Welcome and introductions to meeting**
Derek Hausenloy, Ioanna Andreadou, Peter Ferdinandy
Carlos Robalo-Cordeiro (Dean of the Faculty)
Henrique Girao
- COST MC Meeting and Updates**
Derek Hausenloy (UK)
- 09:00-09:45 **Keynote Lecture**
Chair: Henrique Girao (Portugal)
- Invited specialist:** (35 min talk, 10 min QA)
EV release in hypoxic stress
Gianluigi Condorelli (Italy)
- 09:45-11:15 **EV-mediated intercellular communication**
Chair: Henrique Girao (Portugal)
(3x20 min talk, 10 min QA)
- 1. TBC**
Sean Davidson (UK)
2. EV, oxidative stress and cardioprotection
Zoltan Gircz (HU)
3. EV in cardiac disease
Tania Martins-Marques (Portugal)
- 11:15-11:45 Coffee Break
- 11:45-13:15 **WG1 - METABOLISM**
Chair: x
(3x20 min talk, 10 min QA)
1. Metabolism and HFPEF
Ines Falcao Pires (Portugal)
2. SGLT-2 inhibitors and the heart
Coert Zuurbier (Netherlands)
3. Mitochondrial ROS in IRI and cardioprotection
Fabio Di Lisa (Italy)
- 13:15-14:00 Lunch + poster viewing
- 14:00-15:30 **WG1 - Innovative approaches to identify new targets**
Chairs: X
(3x20 min talk, 10 min QA)
1. Bioinformatic tools to find novel targets for pulmonary arterial hypertension
Rui Baptista (Portugal)
2. Screening tools to identify novel therapeutic targets
Miguel Mano (Portugal)



3. miRNA interactome network analysis in cardioprotection and cardiotoxicity to identify new drug targets

Peter Ferdinandy (Hungary)

15:30-16:00 Coffee Break

16:00-17:15

STSM

Chair: Coert Zuurbier

STSM reports

(4x10 min talk, 5 min QA)

1. TBC
2. TBC
3. TBC
4. TBC

STSM review (15 min)

Coert Zuurbier (Netherlands)

17:15-18:45

Connexin-mediated intercellular communication

Chairs: Rainer Schulz (Germany)

(3x20 min talk, 10 min QA)

1. Pannexin1 in cardiac ischemia/reperfusion
Brenda Kwak (Switzerland)- may not come
2. Connexin degradation in heart diseases
Henrique Girao (Portugal)
3. tbc

18:45-20:00

Poster Session (with cheese and wine)- moderation and prize

20:00

Informal Dinner together

Sunday Apr 3th 2022

8:30-10:00

WG1 IMAGING

(3x20 min talk, 10 min QA)

Chair: X

1. Atherosclerotic plaque calcification- PET imaging
Maria Joao Vidigal (Coimbra, Portugal)
2. Complex nature of endothelial dysfunction in cardiovascular diseases: insight from in vivo studies
Stefan Chlopicki (Poland)
3. Cardiac MRI in acute myocardial infarction and COVID-19
Heerajnarain Bulluck (UK)

10:00-10:30

Coffee Break

10:30-12:30

ECl presentations

Chair: X

(6 x 10 min talk, 10 min QA)

1. TBC
2. TBC
3. TBC
4. TBC
5. TBC
6. TBC

12:30-13:30

Lunch

13:00-14:45

WG1 miRNA

Chair: x

Keynote Lecture

Invited specialist: (35 min talk, 10 min QA)

Cardiovascular Precision Medicine: Combining Non-coding RNAs and Protein Biomarkers

Manuel Mayr (UK)

(2x20 min talk, 10 min QA)

1. Non-coding RNA in cardiovascular diseases
Yvan Devaux (Luxembourg)
2. miRNA in the myocardium
Risto Kerkala (Finland)

14:45-15:45

WG2 Vasculature/ECM

Chair: x

(3x15 min talk, 5 min QA)

1. Targeting the ECM post-AMI
Elisa Liehn (Denmark)
2. Intramyocardial haemorrhage as cardioprotective target
Niels van Royen (Netherlands)
3. Extracellular Matrix in cardiac homeostasis and injury
Diana Nascimento (Portugal)

15:45-16:15

Coffee-break

16:15-17:35 **WG3 Confounders – co-medications**

Chairs: Peter Ferdinandy, Rainer Schulz
(4x15 min talk, 5 min QA)

1. Translation of experimental cardioprotective capability of P2Y₁₂ inhibitors into clinical outcome in patients with ST-elevation myocardial infarction
Hans Erik Botker (Denmark)
2. Cardioprotection by SGLT2 inhibitors in myocardial infarction: a class or a drug effect?
Ioanna Andreadou (Greece)
3. The power of statins in the heart: unravelling a novel cardioprotective approach
Gemma Vilahur (Spain)
4. Cardioprotective effect of a GLP-1 receptor agonist in insulin-resistant heart through improvements in Ca²⁺-homeostasis and mitochondrial function
Belma Turan (Turkey)

17:35-19:00 **WG4 Methodological issues and challenges with translating cardioprotection**

Chairs: X
(4x15 min talk, 5 min QA)

1. Anesthesia for rat and mice in vivo studies
Coert Zuurbier (Netherlands)
2. Reproducibility of cardioprotection - importance of publishing neutral or negative data
Peter Ferdinandy (Hungary)
3. RIC and new pig AMI consortium (*video*)
Petra Kleinbongard (Germany)
4. Methodological characterisation of pig AMI model
Dominique de Kleijn (Holland)

20:00 Meeting Dinner (FADO)

Monday Apr 4th 2022

08:30-09:10 **Keynote Lecture**
Chair: X

Invited specialist: (30 min talk, 10 min QA)
Translation Research in HFpEF
Adelino Leite Moreira (Portugal)

09:10-10:00 **EU-CARDIOPROTECTION COST Action CA16225**
Review and Achievements

History and Overview
Derek Hausenloy (UK)

Review of COST Action meetings

Brussels, Belgium	Derek Hausenloy
Vienna, Austria	Bruno Podesser, Mariann Gyongyosi
Santorini, Greece	Ioanna Andreadou
Kragujevac, Serbia	Vladimir Jakovljevic, Dragan Djuric (video)
Oslo, Norway	Søren Erik Pischke (video)
Mallorca, Spain	Gemma Vilahur, Marisol Ruiz-Meana

10:00-10:30 **WG1 TARGET - review and achievements**
Chairs: Derek Hausenloy, Ioanna Andreadou

Overview of achievements
Derek Hausenloy (UK), Ioanna Andreadou (Greece)

10:30-11:00 Coffee Break

11:00-11:30 **WG2 COMBINATION - review and achievements**
Chairs: Sean Davidson, Marisol Ruiz-Meana

Overview of achievements
Sean Davidson (UK), Marisol Ruiz-Meana (Spain)

11:30-12:00 **WG3 CONFFOUNDERS – review and achievements**
Chairs: Peter Ferdinandy, Rainer Schulz

Overview of achievements
Peter Ferdinandy (Hungary), Rainer Schulz (Germany) video

12:00-12:30 **WG4 – CONSORTIUM – review and achievements**
Chairs: Gerd Heusch, Hans Erik Botker

Overview of achievements
Gerd Heusch (Germany) video, Hans Erik Botker (Denmark)

12:30-13:30 Lunch

13:30-14:00 **New COST Action application – EU-METAHEART**
Christophe Maack (Germany), Gemma Vilahur (Spain), Marisol Ruiz-Meana (Spain)

14:00-14:15 **Final words and farewell**
Meeting and COST Action close

15:00-20:00 Social Excursion (city tour-University /winery)

20:00 Final meeting Dinner (with dancing!)