

5th EU-CARDIOPROTECTION COST Action MC and WG Meeting

Sept 16th – 18th 2019, Oslo, Norway

Cost Action CA16225

Chair:

Derek Hausenloy
(UK)

Vice Chair:

Peter Ferdinandy
(Hungary)

WG1: New Targets

Ioanna Andreadou
(Leader, Greece)
Derek Hausenloy
(Co-leader, UK)
Hector Cabrera-Fuentes
(Co-leader, Germany)

WG2: Combination Therapy

Sean Davidson
(Leader, UK)
David Garcia-Dorado
(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)
Hector Cabrera-Fuentes
(Germany)

Grant Manager:

Elizabeth Hendricks (UK)



Meeting Venue

Oslo University Hospital, Rikshospitalet
Sognsvannsveien 20, 0372 Oslo, Norway
Green Auditorium

Website for registration

<https://nettskjema.uio.no/a/5th-eu-cardioprotection-cost>

Program committee

COST Action Core Group committee
Prof Søren Pischke (local organisor)

General Information

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Monday September 16th 2019

- 0830-0900 COST Action Core group meeting – (closed meeting)
- 0830-0900 Registration and put posters up
- 0900-1030 **Welcome and introductions to meeting**
Derek Hausenloy, Ioanna Andreadou, Peter Ferdinandy, Søren Pischke
- COST Action Management Committee meeting (all invited)**
- New COST International Partner Countries –
Mexico Instituto Tecnológico y De Estudios Superiores De Monterrey (ITESM)
– research interests
Hector Cabrera-Fuentes (Germany/Singapore/Mexico)
- 1030-1100 Coffee Break – Poster viewing
- 1100-1145 **Opening Keynote Lecture**
Chair: Ioanna Andreadou
- Invited specialist:** (30 min talk, 15 min QA)
H₂S in the heart: sources, targets and translational potential
Andreas Papapetropoulos (Greece)
- 1145-1300 **COST Workshop – Animal Models and Co-Morbidities**
Chair: Rainer Schulz
1. *Ex vivo* mice, rat, rabbit models of AMI
Robert Bell (15 min talk, 10 min QA)
 2. Cellular and *ex vivo* human models of acute IRI
Sean Davidson (15 min talk, 10 min QA)
 3. Gender animal models
Kirsti Ytrehus (15 min talk, 10 min QA)
- 1300-1400 Lunch – Poster viewing
- 1400-1540 **Workshop – Animal Models and Co-Morbidities**
Chair: Kirsti Ytrehus
4. *In vivo* mice and rat models of AMI
Ioanna Andreadou (15 min talk, 10 min QA)
 5. Pig models of AMI
Petra Kleinbongard (15 min talk, 10 min QA)
 6. Metabolic disease models (Obesity, MS, Diabetes)
Heiko Brügge (15 min talk, 10 min QA)
 7. Hyperlipidaemia animal models
Peter Ferdinandy (15 min talk, 10 min QA)
- 1540-1600 Coffee Break - Poster viewing
- 1600-1715 **Workshop – Animal Models and Co-Morbidities**
Chair: Peter Ferdinandy
8. Hypertension and LVH animal models
Gábor Szabó (15 min talk, 10 min QA)

9. Pulmonary arterial hypertension animal models
Rainer Schulz (15 min talk, 10 min QA)
10. Co-medication animal models
Coert Zuurbier (15 min talk, 10 min QA)

1715-1800 **WG3 CONFOUNDERS**

WG3 Workshop to select co-morbidities/co-medications

Chairs: Peter Ferdinandy and Rainer Schulz

- Rat vs Mouse Co-morbidity models - for Network
- Select 2-3 Co-medications and Co-morbidities

WG3 Summary and Action Plan

2000-2200 Meeting dinner- venue tbc – walking distance from hotels

Tuesday September 17th 2019

WG1 NEW TARGETS - Inflammation

Chairs: Ioanna Andreadou, Hector Cabrera-Fuentes, Derek Hausenloy

0830-0920 **Invited specialists:** (20 min talk, 5 min QA)
Chair: Hector Cabrera-Fuentes

1. Macrophages and cardioprotection
William Boisvert (Hawaii, US)
2. Inflammasome in cardiac IRI
Øystein Sandanger (Oslo, Norway)

0920-1000 **WG1 Workshop - Inflammation**
Chair: Soren Pischke

Inflammation targets for cardioprotection – 4 min talks

MitoDNA

Kåre-Olav Stensløkken (Oslo, Norway)

Targeting mitochondrial morphology to modulate inflammation

Hector Cabrera-Fuentes (Germany/Singapore/Mexico)

Cardiomyocytes represent the main cellular source of cardioprotective TNF in the heart

Sandrine Lecour (Cape-Town, South Africa)

WG1 Summary and Action Plan

1000-1100 **WG1 NEW TARGETS – SGLT**
Chair: Ioanna Andreadou (6 min talks)

1. *Coert Zuurbier (Amsterdam, Netherlands)*
2. *Robert Bell (London, UK)*
3. *Ioanna Andreadou (Athen Greece)*
4. *Belma Turan (Turkey)*
5. *Hans Erik Botker (Denmark)*

1030-1100 Q&A and Discussion

1100-1130 Coffee Break – Moderated poster session 1
Chairs: TBC

WG1 NEW TARGETS - OMICS

1130-1245 **Invited specialists:** (20 min talk, 5 min QA)
Chair: Peter Ferdinandy

Screening for new cardioprotective targets
Mauro Giacca (Trieste, Italy)

WG1 Workshop –OMICS strategies

– 4 min talks

O-GlcNAcylic approach for future identification of new targets for cardioprotection
Luc Bertrand (Belgium)

WG1 Summary and Action Plan

Invited specialists: (20 min talk, 5 min QA)
Chair: Peter Ferdinandy

1225 OMICS strategies to identify new therapeutic targets
Manual Mayr (London, UK)

1245-1330 Lunch – Moderated poster session 2
Chairs: TBC

1330-1520 **WG1 NEW TARGETS - Coronary Vascular/Endothelial**
Chairs: Ioanna Andreadou, Hector Cabrera-Fuentes, Derek Hausenloy

Invited specialists: (20 min talk, 5 min QA)
Chair: Stefan Choplicki

1. Coronary microvasculature as target for cardioprotection
Filippo Crea (Rome, Italy)
2. Microvasculature on a chip
Wilbur Lam (Pittsburgh, US)
3. Targeting the adrenergic regulation of the SERCA2 complex protects from myocardial ischemia-reperfusion injury
Kjetil Tasken (Oslo, Norway)

1520-1600 **WG1 Workshop - Coronary vascular/Endothelial**
Chairs: Ioanna Andreadou, Derek Hausenloy

Coronary vascular/Endothelial targets for cardioprotection – 4 min talks

Endothelial barrier protection by AMPK and SGLT2 inhibitors.
Christophe Beauloye (Belgium)

WG1 Summary and Action Plan

1600-1700 Visit to VR facilities at University Hospital
1700-1930 City excursion leaving from meeting venue

1930-2200 Opera House
Drop-off back to hotels

Wednesday September 18th 2019**0830-0930 WG2 COMBINATION THERAPY****WG2 Workshop to select new combinations****Chairs:** Sean Davidson, Attila Kiss**Invited specialists:** (20 min talk, 5 min QA)Developing a multi-targeted strategy to protect the heart from ischaemia-reperfusion injury.
Derek Yellon (London, UK)

- Select 3-4 interventions to be used in combination

WG2 Summary and Action Plan

0930-1010 Oral abstract ECI presentations (7 min talk, 3 min QA)**Chairs:**

1. EHD1 modulates gap junction remodeling in the ischemic heart
Tânia Marques (Portugal)- poster award winner from Serbia COST meeting
2. Speaker 2
3. Speaker 3
4. Speaker 4

1010-1030 Coffee Break – Poster Viewing**1030-1130 Short-Term Scientific Missions - REPORTS (10 min talk, 5 min QA)****Chair:** Coert Zuurbier

1. Neural stem cell-derived exosomes and cardioprotection
Vladimir Vinokur (Israel)
2. STEMI and remote Conditioning ; Imaging Remote area alterations'
Agathi-Rosa Vrettou (Greece)
3. Alterations in peripheral endothelial function in murine model of heart failure
(Tgαα* 44)
Tasmin Mohaissen
4. Virtual and in vitro screening for small molecules with potential cardioprotective properties
José Peña-Guerrero

1130-1245 WG4: CONSORTIUM**Chairs:** Gerd Heusch, Jacob Lonborg, Hans Erik Botker**Invited specialists:** (20 min talk, 5 min QA)**Chairs:** Hans Erik Botker

1. Setting up a preclinical small animal network of neuroprotection
Dirk Hermann (Essen, Germany)
2. Setting up a multi-centre pig study
Bernardo Bollen Pinto (Geneva, Switzerland)
3. IL-6 receptor inhibition in non-ST-elevation myocardial infarction
Ola Kleveland (Trondheim, Norway)

- 1245-1330 **WG4 Workshop - Networks**
Chair: Gerd Heusch, Jacob Lonborg, Hans Erik Botker
1. Setting up our European Cardioprotection Consortium
 2. Choosing the animal models, protocols, and sites
 3. The CONDI2/ERIC-PPCI trial
Hans Erik Botker (Denmark) and Derek Hausenloy (UK)
- WG4 Summary and Action Plan
- 1330-1345 Summary and action plan
Meeting close
- 1345 Lunch