

ERA-Net on Cardiovascular Diseases (ERA-CVD)

Symposium

Riga, Latvia, May 14th to 16th, 2019

Agenda (as of April 17th, 2019)

Venue: Riga, Latvia, University of Latvia, Raina Bulv 19, Riga LV-1050

Tuesday, May 14th 2019, University of Latvia

Arrival

16:00 **Registration** (Entrance hall University) and **welcome coffee** ·
Aula minor side room

Poster mounting in Aula minor

17:00 **Networking for Early Career Researchers (ECRs)** ·
Aula magna, Aula minor, Law school and Museum room

17:00 – 17:20 **Icebreaker** · Aula magna

17:20 – 17:35 **Welcome from local host VIAA** · Aula magna
*Maija Bundule, State Education Development Agency
(SEDA; VIAA in Latvian)*

Welcome ERA-CVD

Wolfgang Ballensiefen (DLR-PT, Germany)

17:35 – 18:00 **Challenges and opportunities in unravelling novel
pathways in cardiovascular disease** · Aula magna
Orina Belton, University College Dublin (IE)

18:00 – 19:30 **Open discussion in World Café format along the
following topics:**

Table hosts are provided in brackets

- **Personalised Medicine Approaches for CVD Research**
Miso Sabovic (SI), Avi Israeli (IL)
 - **Regenerative Strategies for CVD**
Karin Sipido (NL), Jeremy Pearson (UK)
 - **Optimising Diagnosis and Prevention for CVD**
Elena Tremoli (IT), Heleen van Beusekom (NL)
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- **Development of devices and wearables**
Pieter Doevendans (NL), Andrew Newby (UK)
- **Patient involvement**
Daphne Bloemkolk (NL), Victoria Ridger (UK)

19:30 – 20:00 Presentation of topics by table hosts, wrap up
Moderation by Wiek van Gilst (NL) · [Aula magna](#)

20:00 Buffet-Dinner · [Aula minor and side room](#)

21:30 End of networking event

Wednesday, May 15th, 2019 University of Latvia · [Aula magna](#)

08:30 – 08:45 Welcome by *Līga Lejina*
(State Secretary, Ministry of Education and Science, Republic of Latvia)

Welcome by *Grzegorz Owsianik*
(European Commission, DG Research & Innovation)

ERA-CVD presentation and welcome
Wolfgang Ballensiefen (DLR-PT, Germany)

8:45 – 10:05 Cardiomyopathy and Heart Failure (JTC 2016) – part 1
Chairs: Gabriela Kuster-Pfister (CH), Jeremy Pearson (UK)

08:45 – 09:05 CLARIFY: Communication between cardiomyocytes and innate immune cells in failing hearts
Eva van Rooij (NL), Thomas Braun (GER), Jean-Sébastien Hulot (FR)

09:05 – 09:25 CARDIO-PRO: Mechanisms of regenerative cardiomyocyte proliferation
Gabriele D'Uva (IT), Gilbert Weidinger (GER)

09:25 – 09:45 MacroERA: Non-coding RNAs in cardiac macrophages and their role in heart failure
Stefan Engelhardt (GER), Stephane Heymans (BL), Leon de Windt (NL)

09:45 – 10:05 PDE4Heart: Gene therapy with phosphodiesterases
Rodolphe Fischmeister (FR), Viacheslav Nikolaev (GER), Finn Olav Levy (NOR)

10:05 – 11:20 Coffee break/Guided tour for posters with even numbers ·
[Aula minor](#), authors will be present at their posters
Guided tour by Wiek van Gilst (NL), Karin Sipido (NL)

11:20 – 12:20 Mechanisms of early atherosclerosis and/or plaque instability in Coronary Artery Disease (JTC 2017) – part 1
Chairs: Andrew Newby (UK), Victoria Ridger (UK)

11:20 – 11:40 druggable-MI-genes: Utilising myocardial infarction genes for better treatment
Heribert Schunkert (GER), Andres Metspalu (EST)

11:40 – 12:00 PROACT: Proteome analysis for the management of coronary artery disease
Jan Staessen (BL), Harald Mischak (GER), Joost Schanstra (FR)

12:00 – 12:20 PREMED-CAD: PREcision MEDicine in Coronary Artery Disease
Mahir Karakas (GER), Tanja Zeller (GER), David-Alexandre Tregouet (FR), Massimiliano Caprio (It)

12:20 – 13:20 Lunch break · [Basement canteen](#)
Poster viewing · [Aula minor](#), [Coffee in side room](#)

13:20 – 14:45 'Pitch' presentation of JTC2018 projects
Chairs: Orina Belton (IE), Andrew Newby (UK), Heleen van Beusekom (NL)

NEMO-IMMUNEagainstHF: Neural Modulation of immune system to shape cardiac remodeling to chronic arterial hypertension and counteract heart failure
Sarah-Lena Puhl (GER)

AIR-MI: Adaptive immune responses in myocardial infarction
Gustavo Ramos (GER)

MEMORY: Trained immunity in bone marrow progenitors as driver of atherosclerosis in obesity
Niels Riksen (NL), Andreas Schlitzer (GER), Hafid Ait-Oufella (FR)

ATHEROLNSIDE: Local immunomodulation of atherosclerosis
by CD8+ T-cell based nanomedicines

Bram Slütter (NL), Remco Megens (GER), Koen Raemdonck (BL)

DENIM: Duchenne muscular dystrophy cardiomyopathy –
the role of Endocannabinoids and immune regulation

Aoife Gowran (IT), Lise Lefèvre (FR)

MISsCVD: Neuroimmune guidance cues, MicroRNAs & Inflammatory
responses: Sex differences in CardioVascular Diseases

Janine van Gils (NL)

DETECT ARRHYTHMIAS: Investigating determinants of atrial
electrical conduction underlying arrhythmias

Sebastian Clauss (GER), Davide Rovina (IT), Fatih Kocabas (TR),
Tõnu Esko (EST)

MULTIFIB: Multimodal fiber optic probe for *in vivo* highly
resolved localisation of cardiac fibrosis

Iwan Wladimirowitsch Schie (GER), Richard Walton (FR),
Marco Andreana (AU)

EMPATHY: Electromechanical presages of sudden cardiac death
in the young: integrating imaging, modelling and genetics for patient
stratification

Joost Lumens (NL), Lia Megens Crotti (IT),
Christine Rootwelt-Norberg (NO)

PICASSO: Unravelling proprotein convertase subtilisin/kexin type 9
(PCSK9) mechanisms In calcific aortic valve disease: from aortic valve
sclerosis to stenosis

Paolo Poggio (IT), Elvira Mass (GER), Benoit Arsenault (CA),
Romain Capoulade (FR)

MEND-AGE: Dissecting mesenchymal-Endothelial cross-talk, hetero-
geneity and function to mend vascular ageing and atherosclerosis

Rafael Kramann (GER), Rui Benedito (ES), Agnieszka Jazwa-Kusior (PL)

HYPER DIP: Maternal hemodynamics in hypertensive disorders of pregnancy – a human and animal model under antihypertensive therapy

Julia Binder (AU), Nadine Haase (GER)

FIBER: Fibrosis treatment by enhancer targeting

Thomas Moore-Morris (FR), Paola Cattaneo (IT), Luis Luna Zurita (ES), Justus Stenzig (GER)

INNOVATION: Investigating long non-coding RNA regulated pathways driving cardiac regeneration

Christian Bär (GER), Reinier Boon (NL), Bernhard Johannes Haubner (AU), Nuno Guimarães-Camboa (IT), Bruno Bernardes de Jesus (PT)

14:45 – 16:00 Coffee break/ Guided tour for posters with odd numbers ·

Aula minor, authors will be present at their posters

Guided tour by Wiek van Gilst (NL), *Elena Tremoli* (IT)

16:00 – 17:00 Cardiomyopathy and Heart Failure (JTC 2016) – part 2

Chairs: Anthony Gramolini (CA), *Pieter Doevendans* (NL)

16:00 – 16:20 ACM-HF: Non myocyte interplay as a novel platform for mechanistic insights and therapeutic approaches in ACM heart failure

Giulio Pompilio (IT), Angelo Parini (FR), Milena Bellin (NL), Gregor Zemljč (SL)

16:20 – 16:40 DETECTIN-HF: Determining the role of clinical and epigenetic risk markers in dilated cardiomyopathies and heart failure

Benjamin Meder (GER), Zofia Bilinska (PL), Andres Metspalu (EST)

16:40 – 17:00 FAT4HEART: Heart Failure Rescue by Nutritional Approaches: relevance of mitochondrial substrate utilisation

Borja Ibanez (ES)

17:00 – 17:15 Coffee break – Poster viewing · Aula minor and side room

- 17:15 – 17:55 Cardiomyopathy and Heart Failure (JTC 2016) – part 3**
Chairs: Gad Keren (IL), Miso Sabovic (SI)
- 17:15 – 17:35 GENPROVIC: Gene Profiling Test for Identification of Treatable Patients with Acute and Chronic Heart Failure**
Heinz-Peter Schultheiss (GER), Andrea Frustaci (IT)
- 17:35 – 17:55 Cardio-Oncology: Early detection and prevention of cardiac dysfunction and heart failure induced by cancer chemotherapeutics**
Canan Nebigil (FR), Michael Wing Yan Chan (TW), Robert Passier (NL), Igor Tetko (GER), Hasan Koyuncu (TR), Laurent Désaubry (FR)
- 18:00 – 21:00 Boat trip with dinner, Poster prize ceremony on board**

Thursday, May 16th, 2019 University of Latvia · Aula magna

- 09:00 – 10:20 Mechanisms of early atherosclerosis and/or plaque instability in Coronary Artery Disease (JTC 2017) – part 2**
Chairs: Orina Belton (IE), Heleen van Beusekom (NL)
- 09:00 – 09:20 MICROEXPLORATION: Exploring the effects of microcalcification on plaque vulnerability**
David Magne (FR), Claudia Goettsch (GER), Agnieszka Strzelecka-Kiliszek (PL)
- 09:20 – 09:40 SCAN: Subclinical atherosclerosis characterisation: Nanoparticle-based molecular and cellular imaging**
Jacob Fog Bentzon (ES), Mangala Srinivas (NL), Susanne Feil (GER)
- 09:40 – 10:00 OPERATION: Elucidate monocyte phenotype to predict arterial wall inflammation**
Eric Stroes (NL), Martin Satny (GER), Alberico Catapano (IT)

- 10:00- 10:20** **ENDLESS: Atherosclerotic plaque erosion leading to thrombus formation. The role of extracellular vesicles in ENDothelial transdiffEntiation, apoptoSiS and leucocyte and platelet adhesion**
Gerard Pasterkamp (NL), Hester den Ruijter (NL)
- 10:20 – 10:50** **Coffee break** · [Aula minor side room](#)
- 10:50 – 11:35** **SRA presentation**
- 10:50 – 11:00** **The ERA CVD Strategic Research Agenda – the process**
Deborah Zyss, ANR (FR)
- 11:00 – 11:35** **The ERA CVD Strategic Research Agenda – 2019**
Wiek van Gilst (NL)
- 11:35 – 12:35** **Mechanisms of early atherosclerosis and/or plaque instability in Coronary Artery Disease (JTC 2017) – part 3**
Chairs: Andrew Newby (UK), Victoria Ridger (UK)
- 11:35 – 11:55** **PLAQUEFIGHT: Fighting Atherosclerotic Plaques in Coronary Artery Disease Via Targeting Neuroimmune Interfaces**
Andreas Habenicht (GER)
- 11:55 – 12:15** **AtheroMacHete: Macrophage heterogeneity in human and murine atherosclerosis: a therapeutic opportunity?**
Erik Biessen (NL), Thomas Ulas (GER)
- 12:15 – 12:35** **XploreCAD: Advanced ex vivo analyses and multi-frequency ultrasound technology for improved evaluation and diagnosis of coronary plaque**
Felicia Antohe (RO)
- 12:35 – 13:30** **Lunch break** · [Basement cantine](#), [Coffee in Aula minor side room](#)
- 13:30 – 14:30** **Interface between myocardium and non-myocyte cells in Heart Failure (JTC 2016)**
Chairs: Pieter Doevendans (NL), Gad Keren (IL)
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13:30 – 13:50 MINOTAUR: Metabolic Therapy for Managing Diastolic Heart Failure

Simon Sedej (AU), Wolfgang Linke (GER), Jorge Alegre-Cebollada (ES), Sylvère Durand (FR), Nádia Gonçalves (PT)

13:50 – 14:10 LIPCAR-HF: A prognostic marker of heart failure with impaired ejection fraction

Florence Pinet (FR), Thomas Thum (GER)

14:10 – 14:30 LYMIT-DIS: Targeted LYmphatic and MIcrovessel Treatments in metabolic-DISEase HFpEF

Ebba Brakenhielm (FR), Elizabeth Jones (BL), Anna Ratajska (PL), Arantxa Gonzalez Miqueo (ES)

14:30– 15:15 Coffee break · [Aula minor side room](#)

15:15 – 17:30 New pathways ad therapies in Cardiomyopathy (JTC 2016) ·

Chairs: Gabriela Kuster-Pfister (CH), Anthony Gramolini (CA)

15:15 – 16:05 Variation: Novel RNA based therapies for treatment-resistant forms of severe cardiomyopathy caused by LMNA mutations

Yigal Pinto (NL), Thomas Eschenhagen (GER), Lior Gepstein (IL), Gisele Bonne (FR)

16:05 – 16:25 EXPERT: Exploring new pathways in age-related heart diseases

Thomas Thum (GER), Leon de Windt (NL), Vicente Andrés (ES), Gianluigi Condorelli (IT), Anne-Cécile Huby (FR), Alexandrina Burlacu (RO)

16:25 – 17:15 General discussion and wrap-up session

16:25 Conclusions by Chairs of JTC2016

16:40 Conclusions by Chairs of JTC2017

16:55 Conclusions by Chairs of JTC2018

17:10 Conclusions & Wrap-up by EAB chair

17:25 Farewell: ERA-CVD COO

17.30 END OF SYMPOSIUM

18:30 Evening excursion in the Old City

19:30 Dinner