

How EHRA/ESC ventures into Horizon2020 funded trials

Nikos Dargatzis

Chair of EHRA Scientific Initiatives
Committee

WE
ARE THE
ESC



EHRA involvement in Horizon2020

WE
ARE THE
ESC

- **Importance**
- **Current status**
- **Obstacles**
- **Perspectives**

EHRA involvement in Horizon2020

WE
ARE THE
ESC

- **Importance**
- **Current status**
- **Obstacles**
- **Perspectives**

EHRA Strategic Goals

WE
ARE THE
ESC

- **Congress**
- **Education**
- **Research**
- **Members**
- **Advocacy**

EHRA involvement in Horizon2020

WE
ARE THE
ESC

- Importance
- **Current status**
- Obstacles
- Perspectives

Recent initiatives

WE
ARE THE
ESC

- 1. Horizon 2020 call:
ESCAPE-NET: European Sudden Cardiac Arrest
network towards Prevention, Education and NEw
Treatment**

- **Total budget: approx. 10 mio Euro**
- **Successful with the highest score (15 out of 15)**
- **EHRA involvement:
Co-leader (together with European Resuscitation Council and P. Schwartz) in Work Package on dissemination, communication, education**
- **Current stage: Has started**



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No° 733381.

ESCAPE-NET

WE
ARE THE
ESC

Participant Number	Participant Organisation Name	Country
1 (Coordinator)	Academic Medical Center (AMC)	NL
2	University of Copenhagen (UC-REGIONH)	DK
3	Unisersite Paris Descartes, Inserm (UP)	FR
4	University of Pavia (UPAV)	IT
5	IRCCS Istituto Auxologico Italiano (AUXO)	IT
6	VU University Medical Center	NL
7	European Society of Cardiology (ESC)*	FR



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No° 733381.

7

European Society of Cardiology (ESC)*

FR

10	Emergency Medical Services of the Hradec Kralove Region (EMS)	CZ
11	European Resuscitation Council (ERC)	BE
12	Istituto di Ricerche Farmacologiche "Mario Negri" (IRFMN)	IT
13	Panaxea (PAN)	NL
14	Fundacio Institut Mar d'Investigacions Mediques (IMIM)	ES
15	Catalyze (CAT)	NL
16	Helmholtz Zentrum Munchen (HZM)	DE

Current projects in Horizon2020

WE
ARE THE
ESC

- 1. Horizon 2020 call:
ESCAPE-NET: Sudden Cardiac Arrest Network**
- 2. Innovative Medicines Initiative 2 call:
Big data in cardiovascular medicine**

Big data in ACS, AF and HF

WE
ARE THE
ESC



Has received support from the EU/EFPIA Innovative Medicines Initiative [2]
Joint Undertaking BigData@Heart grant n° 116074

www.escardio.org/EHRA

N. Dagres



























- Consortium consisting of academia, pharmaceutical companies, patient networks, learned societies, SMEs
- It aims at delivering clinically relevant disease phenotypes, scalable insights from realworld evidence through advanced analytics, and innovative insights for driving drug development and personalised medicine.
- The platform comprises rich biomedical and omics-data on over 25 million subjects across Europe

This work has received support from the EU/EFPIA Innovative Medicines Initiative [2]
Joint Undertaking BigData@Heart grant n° 116074

EHRA involvement

WE
ARE THE
ESC

Table 1.3.a: highlights of the BigData@Heart scientific leadership

 <p>Prof. dr. Rick Grobbee (UMCU): President of European Association for Cardiovascular Prevention and Rehabilitation, Academic Lead IMI Get Real; Expertise: clinical and cardiovascular epidemiology (co-chair; WP-lead WP1 & WP5)</p>	 <p>Prof. dr. Panos E. Vardas (ESC): Past president ESC, professor of cardiology, chairman European Heart Agency (ESC) (WP-lead WP6)</p>	 <p>Prof. dr. Folkert Asselbergs (UMCU-UCL): Professor of Cardiovascular Genetics, CSO Durrer Center for Cardiovascular Disease; Expertise: Translational genomics, Pharmacogenomics, Clinical Cardiology, Biobanking (Scientific coordinator)</p>
 <p>Prof. dr. Stefan Anker (UMG): Professor Innovative Clinical Trials in chronic and acute HF and wasting disorders. Past president of ESC HF association, councillor of the ESC board (co-chair; WP-lead WP2 & WPX and HF-lead)</p>	 <p>Susanne Logstrup (EHN): Director; 20 years' experience in policies to prevent CVD and promote CV health; ESC Fellow; in charge of EHN's, advocacy strategy, research and coordination of EHN's patients' group (WP-lead WP6)</p>	 <p>Dr. Pieter Stolk (UMCU): Experienced project manager for public private partnerships (incl. IMI GetReal). Expertise: EU pharma policy (incl. HTA/marketing authorization) (Executive coordinator)</p>
 <p>Dr. Jason Arora (ICHOM): Director at ICHOM. Expertise in outcomes, public health, international datasets, patient reported outcomes, and value-based healthcare. (WP-lead WP2)</p>	 <p>Prof. dr. Hans van Delden (UMCU): Professor medical ethics, president of CIOMS, Chair of the International Bioethics committee, Unesco. Expertise: responsible innovation in drug development and end-of-life (WP-lead WP7)</p>	 <p>Isabel Bardinet (ESC): ESC CEO since 2009 (ESC representative in BigData@Heart operational management team)</p>
 <p>Prof. dr. Nikolaos Maniadakis (ESC): Chair of Department of Health Services Management. Expertise: health services research, health systems performance measurement, economic evaluation and HTA, health policy. (WP-lead WP3)</p>	 <p>Prof. dr. Paulus Kirchhof (BHAM): Deputy Director Institute of Cardiovascular Sciences BHAM, Chair, AFNET. Coordinator, CATCH ME. Expertise in identifying disease mechanisms in AF and HF for clinical evaluations and guideline writing (AF-lead)</p>	 <p>Prof. dr. Spiros Denaxas (UCL): Senior Lecturer in Biomedical Informatics; clinical epidemiology; biomedical informatics; semantic technologies; CALIBER; machine learning and data mining (WP3 nucleus)</p>
 <p>Prof. Richard Dobson (UCL): Professor of Bio and Health Informatics, IMI Radar, EMIF; Expertise: bioinformatics and health informatics; structured and unstructured data; googleizing elastic searches of entire hospital diverse records. (WP-lead WP3)</p>	 <p>Prof. dr. Gerhard Hindricks (ESC): Director of the Department of Electrophysiology at the University Leipzig, Heart Centre; President European Heart Rhythm Association (AF-lead)</p>	 <p>Dr. Ghislaine van Thiel (UMCU): Medical ethicist. Expertise in ethics of drug development, governance and research ethics. IMI Get Real (WP7 nucleus member)</p>
 <p>Prof. dr. Harry Hemingway (UCL): Director of Farr Institute; Expertise: linked health records and disease registries; Impact: ACS outcomes (Lancet 2014a), CVD risk factors (Lancet 2014b), and records and genomics (Science 2016) (WP-lead WP4)</p>	 <p>Prof. dr. Stefan Blankenberg (UKE): Director of the Clinic for General and Interventional Cardiology; Steering Committee member „Functional Genomics“ of the American Heart Association. (ACS-lead)</p>	 <p>Prof. dr. Alan John Camm (ESC): Professor of Clinical Cardiology at St. George's University of London and President-elect of European Heart Rhythm Association (AF nucleus member)</p>
 <p>Dr. Aldo Maggioni (ESC): Director, Research Center Italian Association of Hospital Cardiologists; Scientific Coordinator of the EURObservational Research program of the European Society of Cardiology (WP-lead WP4)</p>	 <p>Prof. dr. Josep Redon (INCLIVA): Professor of Medicine. Scientific Director INCLIVA, Research Institute, University of Valencia. Expertise: Clinical and cardiovascular research. (ACS-lead)</p>	 <p>Prof. dr. René Eljckemans (UMCU): Professor in biostatistics; Expertise: statistical methods for prediction and classification in high dimensional data, Survival analysis, clinical trial (WP5 nucleus member)</p>
 <p>Prof. dr. John Danesh (CAM): European Research Council Senior Investigator, Principal Investigator of EU-FP7 EPIC-CVD. Expertise: CVD target validation (Science 2016, NEJM 2016), large-scale epidemiology (Lancet 2012, 2013) (WP-lead WP5)</p>	 <p>Dr. Lars Lund (KI): Assoc. Director SwedeHF Research Program; Assoc. Director the International Society for Heart & Lung Transplantation Registry. Expertise: HF big data and registry comparative effectiveness and pragmatic trials, biomarkers and proteomics. (HF-lead)</p>	 <p>Prof. dr. Tanja Zeller (UKE): Professor for Genomics and Systems Biology; expertise: molecular biomarkers in the field of cardiovascular diseases, bioinformatics and biostatistics (WP4 & WP5 nucleus member)</p>

Current projects in Horizon2020

WE
ARE THE
ESC

- 1. Horizon 2020 call:
ESCAPE-NET: Sudden Cardiac Arrest Network**
- 2. Innovative Medicines Initiative 2 call:
Big data in cardiovascular medicine**
- 3. Horizon 2020:
CATCH ME**

CATCH ME

WE
ARE THE
ESC

Aims: improve the prevention and treatment of Atrial Fibrillation

Develop and validate better disease management strategies based on the improved understanding of the main health modifiers



- Identify the major health modifiers causing AF
- Develop clinical tools to personalise the AF patients management
- Guide and strengthen future strategies to prevent, diagnose, and treat AF
- More info: <http://www.catch-me.info/>



Receiving funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement no. 633196

www.escardio.org/EHRA



Current projects in Horizon2020

WE
ARE THE
ESC

- 1. Horizon 2020 call:
ESCAPE-NET: Sudden Cardiac Arrest Network**
- 2. Innovative Medicines Initiative 2 call:
Big data in cardiovascular medicine**
- 3. Horizon 2020:
CATCH ME**
- 4. Horizon 2020 call:
RESET SCD Trial**

An EHRA Initiative

WE
ARE THE
ESC

REevaluation of optimal treatment
Strategies for **prE**ven**T**ion of **S**udden
Cardiac **D**eath in patients with ischemic
cardiomyopathy

RESET SCD

International Chief Investigator: **G. Hindricks**

RESET SCD - Background

- Main guideline relevant trials 15-20 years old
- MADIT II Trial begin July 1997, published 2002
- Since then significant changes in therapy reducing mortality:
- New drugs, e.g. eplerenone, ARNI
- Wider beta blocker use (MADIT II baseline 60%, last follow up 72%) and statin use
- Improved revascularization strategies

RESET SCD – Trial design

- **Patients with ischemic cardiomyopathy eligible for ICD indication for primary prevention**
- **Randomization: ICD vs optimal medical treatment**
- **Sample size: 3.500 patients**

Horizon2020 application for RESET SCD

WE
ARE THE
ESC

- Two-stage application
- Successful in the first stage (10%, threshold 9.5 of 10)
- **Preparing the full application**
- Deadline: April 2017

EHRA involvement in Horizon2020

WE
ARE THE
ESC

- Importance
- Current status
- **Obstacles**
- Perspectives

Complex structure

WE
ARE THE
ESC

Societal Challenges
Horizon Prize - Birth Day
H2020-BirthDayPrize-2016

Publication date:28 April 2016

Societal Challenges
H2020-JTI-IMI2-2016-10-two-stage
H2020-JTI-IMI2-2016-10-
two-stage

Publication date:21 December 2016

Societal Challenges
H2020-JTI-IMI2-2015-08-
single-stage
H2020-JTI-IMI2-2015-08-
single-stage

Publication date:18 December 2015

Societal Challenges
Personalised Medicine
H2020-SC1-2016-2017

Publication date:14 October 2015

Industrial Leadership
Horizon 2020 dedicated SME
Instrument 2016-2017
H2020-SMEInst-2016-2017

Publication date:14 October 2015

Industrial Leadership
Internet of Things
H2020-IOT-2016-2017

Publication date:14 October 2015

Societal Challenges
Digital Security Focus Area
H2020-DS-2016-2017

Publication date:14 October 2015

In addition to the search facilities, the full list of H2020 Calls can be found [here](#).

Very competitive

The Commission has now completed the evaluation of the proposals submitted to the above-mentioned call.

The following overall thresholds were applied:

Topic code	Topic short name	Overall threshold applied
SC1-PM-02-2017	New concepts in patient stratification	9.0
SC1-PM-07-2017	Promoting mental health and well-being in the young	8.0
SC1-PM-08-2017	New therapies for rare diseases	8.5
SC1-PM-10-2017	Comparing the effectiveness of existing healthcare interventions in the adult population	9.5

The results of the evaluation are as follows:

Number of proposals submitted (including proposals transferred from or to other calls): 668

Number of inadmissible proposals: 0

Number of ineligible proposals: 0

Number of above-threshold proposals: 101

Total budget requested for above-threshold proposals: EUR 560.480.405,00

EHRA involvement in Horizon2020

WE
ARE THE
ESC

- **Important!**
- **Opportunities for funding big, relevant projects**
- **Difficult, but doable**