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**Please complete and return to your Working Groups Coordinator / Officer**

([cgomez@escardio.org](mailto:cgomez@escardio.org) / [lbergamaschi@escardio.org](mailto:lbergamaschi@escardio.org))

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## Identification

**Working Group on:** e-Cardiology

### *Nucleus Composition (Sept 2014-Sept 2016)*

*(Precise name, surname and country)*

Chairperson: Prof. Goran Krstacic, from Croatia  
Vice-Chairperson: Assoc. Enrico Gianluca Caiani, from Italy  
Secretary: Dr. Catherine Chronaki, from Greece  
Web-Editor & Public Relations: Assoc. Assist. Prof Nico Bruining, from Netherlands  
Ordinary Nucleus Member: Dr. Nadjia Kachenoura, from France  
Ordinary Nucleus Member: Assoc. Prof. Olivier Bernard, from France  
Ordinary Nucleus Member: Prof. Blanca Rodríguez, from UK  
Ordinary Nucleus Member: Prof. Gianfranco Parati, from Italy  
Ordinary Nucleus Member: Assis. Prof. Joost Lumens, from Netherlands  
Ex-Officio: Dr Enno T. Van Der Velde, from Netherlands  
Ex-Officio: Prof. Pablo Laguna, from Spain

### *Elections in 2016*

**Assis. Prof. Joost Lumens** was elected in February 2016 to take the position of Vice-Chair from September 2016

Catherine Chronaki & Nadjia Kachenoura have to step down in September 2016

Elected members are:

Dr. Polychronis Dilaveris, FESC (Greece)  
Prof. Mamas Mamas (United Kingdom)  
Prof. Yana Simova (Bulgaria)

## Activities of the Working Group in 2016

### *Meetings*

*(For each meeting, please precise titles, dates, places, number of participants)*

#### WG Annual Meeting(s)

- Joint session in EHRA Europace Cardiostim meeting, June 2015, Milan, Italy
- Barcelona, 21-22/3/2015: WG Nucleus meeting
- ESC, London, 30 August: WG Nucleus meeting
- ESC, London, 31 August: WG General Assembly, 30 participants

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## Endorsed Meeting(s)

Contributed to the scientific program of:

- IIC Innovation in Cardiology (Fermo, Italy, 15-17 October 2015), 200 participants
- EHRA Europace – Cardiotim 2015 (Milan, June 2015), 3500 participants

Non-ESC endorsed meetings:

- 5th International Conference on e-Health and Bioengineering, (Iasi, Romania, 19-21 November 2015), 250 participants
- Computing in Cardiology 42th annual conference (Nice, France, 4-6 September 2015), 450 participants
- Investigator Generated Satellite Symposia on "Cardiovascular variability: update on methodological issues and clinical applications", 25th European Meeting on Hypertension and Cardiovascular Protection (Milan, June 2015), 450 participants
- Med-e-Tel, International Society for Telemedicine and eHealth (Luxemburg, April 2015 and 2016), 700 participants

## *Papers & Guidelines*

*(Please precise titles, authors and journal/issue where the paper is published)*

### Publications & Scientific Papers submitted by the WG, not by individuals

- e-Health: a position statement of the European Society of Cardiology  
References: doi: 10.1093/eurheartj/ehv416 ; first published online: 25 August 2015
- Advances in heart rate variability signal analysis, Joint position statement by the e-Cardiology ESC Working Group and the European Heart Rhythm Association co-endorsed by the Asia Pacific Heart Rhythm Society Sassi R, Cerutti S, Lombardi F, Malik M, Huikuri HV, Peng CK, Schmidt G, Yamamoto Y. Document Reviewers: Gorenk B, Lip GY, Grassi G, Kudaiberdieva G, Fisher JP, Zabel M, Macfadyen R.
- -References: doi: 10.1093/europace/euv015; First published online: 15 July 2015; Europace 2015 Sep; 17(9):1341-53

### Guidelines participation (writing or reviewing)

- PROF GORAN KRSTACIC – REVIEWER 2016 ESC/EAS GUIDELINES FOR THE MANAGEMENT OF DYSLIPIDAEMIAS

### WG officially affiliated to a journal? Which one?

- EUROPACE

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## *Sessions*

*(For sessions, please precise titles and accepted/rejected status)*

Proposals for pre-arranged sessions at the ESC congress and/or ESC Sub-specialty meetings  
4 sessions for e-Cardiology Heart team special track

How to improve hypertension control in the population: new strategies  
Multiscale modelling to personalise electrophysiological treatment for ventricular disease  
e-Health applications in heart failure  
Big data in a nutshell

- 2 sessions in Imaging topic
- 2 Advances science session
- 1 Best poster session
- 1 Moderated poster session
- 1 Poster sessions

## *Other*

Task Force(s) (Special Unit)

- Since Oct 2015, the **Task Force on Heart Rhythm and Cardiac Electro-Mechanics** has been established inside our WG (coordinators Prof. Blanca Rodriguez and Dr. Joost Lumens).
- Since Nov 2015, the **Task Force on m-Health** has been established inside our WG (coordinators Prof. Enrico Caiani and Dr. E.T. Van der Velde).

## Perspectives for the next 2 years

*List your future projects / business plan*

- Organization of special track «e-Cardiology and the Heart team»- ESC 2016 Rome
- To maintain and increase our visibility inside the ESC community through dedicated sessions at ESC.
- To increase and foster collaboration with EHRA on common themes of interest, with publication of a joint paper
- To increase our visibility in the context of ESC as regards the contribution our WG could give on eHealth and mHealth technology; planning of at least 1 awareness/consensus paper in this field published on ESC journals.
- To increase collaboration and exposition of our WG with non-ESC bodies through the endorsement of conferences, with the aim of constituting a critical mass of experts in the different fields of our WG competence
- To foster collaboration with Computing in Cardiology Inc., by instituting a research award (CTA) for the best paper on translational research, to involve increased collaboration between engineers/scientist and cardiologists.

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- To evaluate the possibility and sustainability to establish a two-yearly conference on E-Cardiology & e-health as official event of the WG

## *Prepare your budget*

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List your Income from ESC entities & from Industry sponsorship  
(Please specify amount & purpose)

- 10000 Euros from ESC for extra-Nucleus meeting
- 10000 contribution from EHRA
- 10000 for writing meetings (if proposal will be accepted)

List your main expenses  
(Please specify amount & purpose)

- Organization WG Nucleus meeting in March : max 10000
- 500 for CinC research Award (CTA)
- Writing meetings: max 10000

## SWOT analysis of your Working Group

### Strength

- Multidisciplinarity
- Presence of both engineering and clinical competences
- Capability of reaching several scientific communities related to Cardiology outside ESC
- Capability of involving ESC as member in EU projects for funding opportunities
- Complementary to other ESC specialty and WGs
- Focus on technological aspects related to Cardiology
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### Weakness

- Low attractivity for Industrial partners that limits external funding resources
- The focus on technological aspects could limit the impact to clinical practice
- ESC conference has low impact on engineers careers an priorities
- Relatively small community
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### Opportunity

- E-health
- M-health
- Collaboration with other ESC bodies, potentially facilitated by multidisciplinarity and technological competences
- Connections with Engineering communities (Computing in Cardiology, European Group of Cardiac Oscillations, IEEE) for organization and cross-dissemination of initiatives

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- Point of contact between different competencies to discuss state-of-the-art technological applications in cardiology and plan awareness papers.
- Large connection to research

### Threaten

- Policies for funding suppression
- Lack of cardiologists participation

## **Recommendations/suggestions to the ESC for the next 2 years**

Improve communication capabilities of the WG in terms of possibility to use social media to reach our community, inform about events, and aggregate potential stakeholders.

To improve research activities inside ESC providing internal funding opportunities.