

# Update from the Working Group on Atherosclerosis & Vascular Biology

M. Back, Chairperson



August 2019

# Summary

- **Nucleus composition**
- **Membership**
- **Congresses & meetings**
- **Education**
- **Research & publication**
  
- **2020 Elections**

# Nucleus 2018-2020 composition

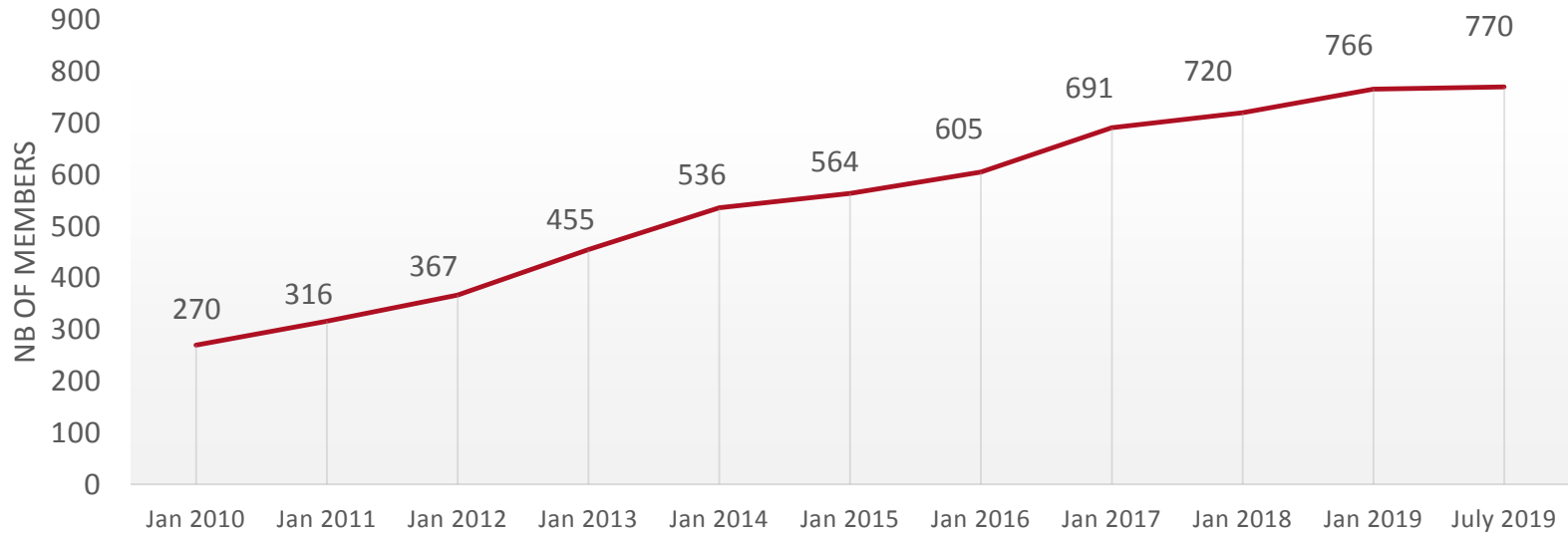
<b>Nucleus Member Role</b>	<b>Start date</b>	<b>End date</b>	<b>First Name</b>	<b>Last Name</b>	<b>Country of Work</b>
Chairperson	01/09/2018	31/08/2020	Magnus	Back	Sweden
Vice-Chairperson	01/09/2018	31/08/2020	Marie-Luce	Bochaton-Piallat	Switzerland
Past-Chairperson	01/09/2018	31/08/2020	Paul	Evans	United Kingdom
Treasurer	01/09/2018	31/08/2020	Cecile	Vindis	France
Secretary	01/09/2018	31/08/2020	Jolanda	Wentzel	Netherlands
Web Editor	01/09/2018	31/08/2022	Elena	Osto	Switzerland
Ordinary nucleus member	01/09/2016	31/08/2020	Martin Conrad	Harmsen	Netherlands
Ordinary nucleus member	01/09/2016	31/08/2020	Michael	Shechter	Israel
Ordinary nucleus member	01/09/2018	31/08/2022	Menno	De Winther	Netherlands
Ordinary nucleus member	01/09/2018	31/08/2022	Giuseppe Danilo	Norata	Italy
Ordinary nucleus member	01/09/2018	31/08/2022	Rory R	Koenen	Netherlands
Ordinary nucleus member	01/09/2016	31/08/2020	Ingrid Elena	Dumitriu	United Kingdom
Ex-Officio	01/09/2018	31/08/2020	Imo	Hoefler	Netherlands
Ex-Officio	01/09/2018	31/08/2020	Daniel	Ketelhuth	Sweden
Ex-Officio	01/09/2018	31/08/2020	Esther	Lutgens	Netherlands
Affiliated Members	01/09/2018	31/08/2020	Caporali	Andrea	United Kingdom
Affiliated Members	01/09/2018	31/08/2020	Christian M	Matter	Switzerland

Contact the nucleus members [online here](#)

# Membership

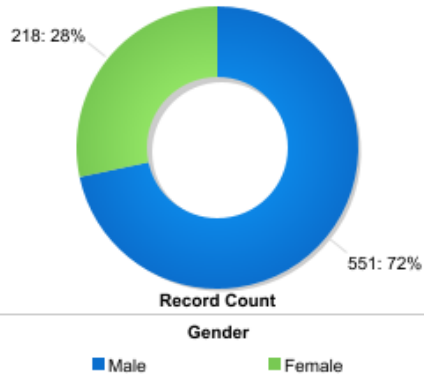
We are growing

Membership evolution since 2010

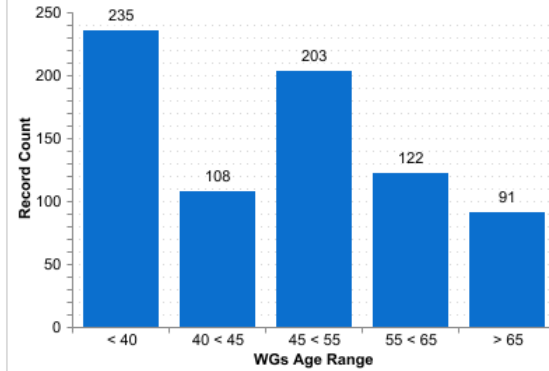


# Membership

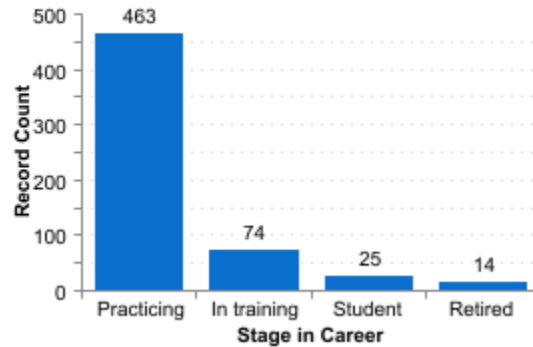
Gender



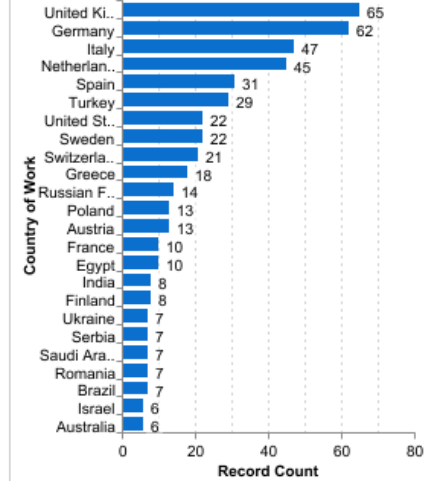
Age



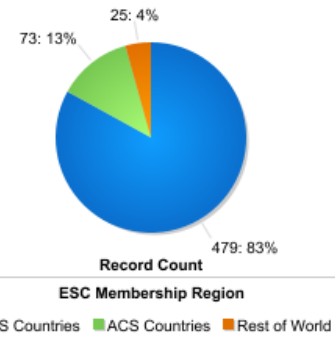
Stage in Career



Most Represented Countries

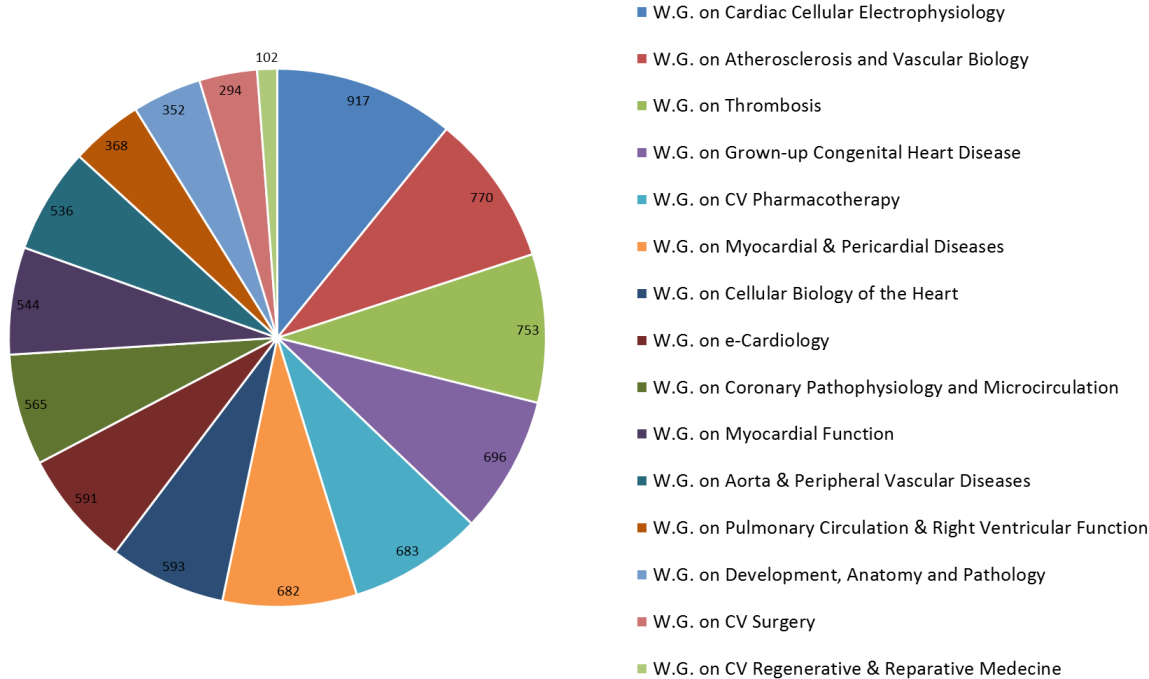


ESC Membership Region



# Membership

## All ESC Working Groups Overview – July 2019



# Congresses & meetings

➤ **Joint session on Endothelial Dysfunction at 3<sup>rd</sup> ESM-EVBO Meeting** (European Society for Microcirculation and European Vascular Biology Organisation)

Tuesday, April 16, 2019

	Session 2.9 ESC WG symposium: EC dysfunction Paul Evans, University of Sheffield, United Kingdom (chair) Marie-Luce Bochaton-Piallat, University of Geneva, Switzerland (chair)
14:15 – 14:30	S.2.9.1 <i>Brachial and retinal endothelial dysfunction – methodology and effect of exercise</i> Arno Schmidt-Trucksäss, University of Basel, Switzerland
14:30 – 14:45	S.2.9.2 <i>Epigenetic changes, oxidative stress and endothelial dysfunction in diabetes</i> Rosa Suades Soler, Karolinska Institutet, Sweden
14:45 – 15:00	S.2.9.3 <i>Endothelial function and coronary microcirculation</i> Danijela Trifunovic, University of Belgrade, Serbia
15:00 – 15:15	S.2.9.4 <i>Flow-mediated dilation (FMD) and peripheral endothelial function assessment</i> Michael Shechter, Tel Aviv University, Israel
15:15 – 15:30	S.2.9.5 <i>Metabolic control of vascular function: the role of gastrointestinal hormones</i> Elena Osto, University Hospital Zurich-institute Of Clinical Chemistry, Zürich, Switzerland
15:30 – 15:45	S.2.9.6 <i>Endothelial dysfunction in the diabetic patient and the contribution by circulating endothelial colony forming cells.</i> Yvonne Alexander, Manchester Metropolitan University, United Kingdom



3<sup>rd</sup> ESM-EVBO  
CONFERENCE

**ESM-EVBO**  
APRIL 15<sup>th</sup>-18<sup>th</sup>, 2019

MAASTRICHT, THE NETHERLANDS

# Congresses & meetings

## ➤ Symposium on Imaging prior EAS congress (European Atherosclerosis Society)

### Chairperson: Dr. Jolanda Wentzel

12:15-12:30 Dr. J. Wentzel & Prof. E. Lutgens – Introduction Vulnerable plaques, biology and imaging

12:30-12:50 Dr. M. Dweck – Nuclear imaging of atherosclerosis

13:00-13:20 Dr. K. van der Heiden – Nuclear imaging of Inflammation and lipids for vulnerable plaque detection

13:30-13:50 Prof. A. Maehara - IVUS based vulnerable plaque detection

14:00-14:30 Break

### Chairperson: Prof. Eline Kooi

14:30-14:50 Dr. E. Regard – OCT-based vulnerable plaque detection

15:00-15:20 Dr. J. Wentzel – Image based assessment of biomechanical parameters; its role in the generation and destabilization of vulnerable plaque

15:30-15:50 Dr. P. Maurovich-Horvat – CT-based detection of vulnerable plaque

16:00-16:20 Prof. E. Kooi – MRI and PET/MR imaging of the hallmarks of plaque vulnerability

16:30-16:50 Prof. C. Yuan – MRI of atherosclerosis: clinical trials and recent technical developments

17:00-17:20 Break

### Chairperson: Prof. Esther Lutgens

17: 20-17:40 Prof. T. Leiner – Clinical application of non-invasive imaging: the role of deep learning

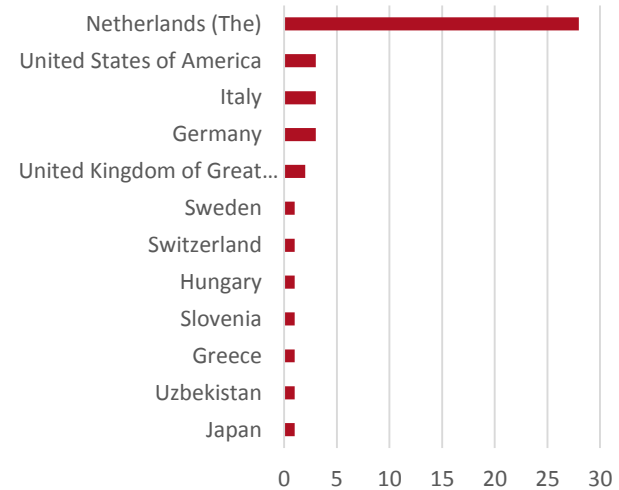
17:50-18:10 Prof. E. Boersma – Application of imaging and biomarkers for risk prediction of cardiovascular events

18:20-18:40 Prof. M. Bäck– Translation of imaging techniques into clinical practice

18:40-18:45 Prof. M. Bäck– closing remarks

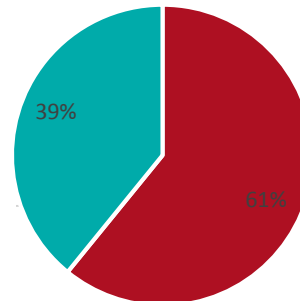
46 participants

Country of work

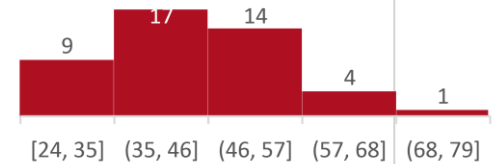


Gender

■ Male ■ Female



Age





# Education

## Projects under development:

### Webinar on Endothelial dysfunction > Seeking sponsorship

#### Learning Objectives:

- *To critically review the technologies for measuring endothelial function*
- *To discuss the potential use of endothelial dysfunction measurement in stratifying patients for cardiovascular disease risk*
- *To discuss whether endothelial dysfunction can be a useful surrogate marker for cardiovascular disease in clinical trials*

#### Presentations:

1. Current technologies for measuring endothelial function – advantages and limitations
2. Can endothelial function be a useful biomarker in clinical trials?

### Webinar on Smooth muscle cells > Programme in construction

# Research & publications



**ESC**






European Society  
of Cardiology

Cardiovascular Research (2019) **115**, 1385–1392

doi:10.1093/cvr/cvz166

**INVITED REVIEW**

## Immunometabolism and atherosclerosis: perspectives and clinical significance: a position paper from the Working Group on Atherosclerosis and Vascular Biology of the European Society of Cardiology

Daniel F.J. Ketelhuth <sup>1,2†</sup>, Esther Lutgens<sup>3,4,5†</sup>, Magnus Bäck<sup>1</sup>, Christoph J. Binder<sup>6</sup>,  
Jan Van den Bossche <sup>7</sup>, Carolin Daniel<sup>8</sup>, Ingrid E. Dumitriu <sup>9</sup>, Imo Hofer<sup>10</sup>,  
Peter Libby<sup>11</sup>, Luke O'Neill<sup>12</sup>, Christian Weber <sup>4,13</sup>, and Paul C. Evans <sup>14\*</sup>

# Research & publications

## WG papers in writing:

- **Smooth muscle cell classification/nomenclature** - Expected publication: end of 2019 / early 2020
- **Endothelial function in atherosclerosis: consensus paper with ESC WG on Aorta & PVD, ESC WG on Coronary P&M, ESC WG on Thrombosis** – Expected publication: end of 2019 / early 2020
- **Imaging of the vulnerable atherosclerotic plaque: a consensus paper with European Association of Cardiovascular Imaging (EACVI) of the ESC** – Expected publication: end of 2019 / early 2020

## Young investigator awards:

**Networking Reception and Award Ceremony of the ESC Working Groups at ESC Congress Paris on Monday 2 September 17:00 CEST, Atrium of Hall 7, Level 3 – registration is mandatory**

- 1 WG awards in **Atherosclerosis, Cerebrovascular Diseases, Aneurysm, Restenosis**
- 1 WG award in **Vascular Biology and Physiology: Microvesicles, Exosomes**

<https://www.escardio.org/Working-groups/Working-Group-on-Atherosclerosis-and-Vascular-biology/Education/Young-Investigator-Awardees>



# 2020 Elections

## Elections for the following positions will be open in 2020

- Vice-Chairperson
- Nucleus member

## Nucleus Member elections – timeline

Call for candidates	April 2020
Voting	May – June 2020
Announcement of results	July 2020

*Nucleus members are elected by the members of that same Working Group whose country of work is an [ESC Member Country](#). Further information on eligibility criteria & election process will be available in the call for candidates.*