

## Joint Meeting of the ESC Working Groups on Myocardial Function & Cellular Biology of the Heart

*Supported by the Heart Failure Association of the ESC  
With the participation of the Heart Failure Specialists of Tomorrow and the Scientists of Tomorrow*

**9-11 May 2019 – Naples, Italy  
San Marcellino Monastery**

### Scientific Programme

#### **Bench to Bedside 4.0 - New therapeutic entry points to fight cardiovascular disease**

#### **Thursday, May 9 (Day 1)**

**13.25** **WELCOME** by the chairs of the ESC WG of Myocardial Function & Cellular Biology

**13.30-15.30** **Session 1 (organised by the ESC WG on Myocardial Function)**

Session title		Non coding RNAs: Update on novel subtypes and translational approaches
	Chairpersons	Thomas Thum (Germany), Blanche Schroen (The Netherlands)
13.30 – 13.50	Senior lecture 1	Translational approaches of non-coding RNA therapeutics Stefanie Dimmeler (Germany)
13.50 – 13.55	Discussion	
13.55 – 14.15	Senior lecture 2	Non-coding RNAs as mediators of premature cardiovascular aging Vicente Andrés (Spain)
14.15 – 14.20	Discussion	
<b>14.20 – 15.20</b>	<b>Abstract presentations</b>	
<b>15.20 – 15.30</b>	<b>Panel comments and discussion</b>	

**15.30-17.00** **COFFEE BREAK AND MODERATED POSTER SESSION**  
Chaired by Stephane Heymans (The Netherlands), Wolfgang Linke (Germany), Marianne Gyongyosi (Austria), Sophie Van Linthout (Germany)

**17.00-19.00** **Session 2 (organised by the ESC WG on Cellular Biology of the Heart)**

Session title		Cardiac cell plasticity; can we (re)program cellular behavior?
	Chairpersons	Linda Van Laake (The Netherlands), Cinzia Perrino (Italy)
17.00 – 17.20	Senior lecture 1	Cardiac reprogramming with small molecules Heikki Ruskoaho, (Finland)
17.20 – 17.25	Discussion	
17.25 – 17.45	Senior lecture 2	Mesodermal iPSC – derived progenitor cells for cardiac repair Robert Zweigerdt (Hannover, Germany)
17.45 – 17.50	Discussion	
<b>17.50 – 18.50</b>	<b>Abstract presentations</b>	
<b>18.50 – 19.00</b>	<b>Panel comments and discussion</b>	

**19.00-19.45** **Key note lecture 1**, chaired by *to be confirmed*

**19.00 – 19.45** **Non-coding RNA in cardiac health and disease**

Stefan Engelhardt (Germany)

20.00 CONGRESS DINNER

## Friday, May 10 (Day 2)

8.30-10.30 Session 3 organised by the Scientists of Tomorrow (SOT)

Session title		Are Scientists of tomorrow already scientists of today?
	Chairpersons	Niels Voigt (Germany), Anke Smits (The Netherlands)
8.30 – 8.50	Presentation 1	The Arrhythmic Heart: Targeting K <sup>+</sup> -channels in Atrial Fibrillation – An Old Hat? Constanze Schmidt (Germany)
8.50 – 9.10	Presentation 2	The Fat Heart: Metabolic Remodeling in Heart Failure with Preserved Ejection Fraction (HFpEF) Gabriele Schiattarella (Dallas, USA)
9.10 – 9.30	Presentation 3	The Slim Heart: Cardioprotection by Caloric Restriction Mahmoud Abdellatif (Graz, Austria)
9.30 – 9.50	Presentation 4	The Reprogrammed Heart: RNA Editing in Health and Disease Konstantinos Stellos (Newcastle, UK)
9.50 – 10.10	Presentation 5	The Treated Heart: Nanoparticle based treatment options in cardiovascular disease Daniele Catalucci (Milan, Italy)
10.10 – 10.30	Discussion	

10.30-11.00 COFFEE BREAK

11.00-13.00 SESSION 4 (organised by the ESC WG on Myocardial Function)

Session title:		Cardiovascular aging and the onset of age-associated diseases
	Chairpersons	Nazha Hamdani (Germany), Ines Pires (Portugal)
11.00 – 11.20	Senior lecture 1	Genetic and epigenetic changes drive aging and age-related diseases Gianluigi Condorelli (Milan, Italy)
11.20 – 11.25	Discussion	
11.25 – 11.45	Senior lecture 2	The role of long non-coding RNA (lncRNA) in aging and age-related diseases Reinier A. Boon (Frankfurt/Amsterdam, Germany/The Netherlands)
11.45 – 11.50	Discussion	
11.50 – 12.50	Abstract presentations	
12.50 – 13.00	Panel comments and discussion	

13.00-14.00 LUNCH

Special Lecture, chaired by Joost Sluijter (The Netherlands)

14.00 – 14.30 Special lecture: Developing a multi-targeted strategy to protect the heart from ischaemia-reperfusion injury  
Derek Yellon (London, UK)

14.30-16.30 Session 5 (organised by the ESC WG on Myocardial Function)

Session title: Cancer and Heart disease: two roads with common signals

	Chairpersons	Emilio Hirsch (Torino, Italy), CG Tocchetti (Naples, Italy)
14.30 – 14.50	Senior lecture 1	The Failing Heart Stimulates Tumor Growth by Circulating Factors Rudolf de Boer (Groningen, The Netherlands)
14.50 – 14.55	Discussion	
14.55 – 15.15	Senior lecture 2	Emerging role of cardiac fibroblasts in anticancer therapy cardiotoxicity Pietro Ameri (Genova, Italy)
15.15 – 15.20	Discussion	
15.20 – 16.20	<b>Abstract presentations</b>	
16.20 – 16.30	<b>Panel comments and discussion</b>	

**16.30-17.00 COFFEE BREAK**

**17.00-19.00 Session 6 (organised by the ESC WG of Cellular Biology of the Heart)**

<b>Session title: New insights in cardioprotection</b>		
	Chairpersons	Peter Ferdinandy (Hungary), Rainer Schulz (Germany)
17.00 – 17.20	Senior lecture 1	Importance of circadian rhythm Sandrine Lecour (South Africa)
17.20 – 17.25	Discussion	
17.25 – 17.45	Senior lecture 2	Non-cardiomyocytes as targets for cardioprotection Thomas Guzick (UK), Editor in Chief of Cardiovascular Research
17.45 – 17.50	Discussion	
17.50 – 18.50	<b>Abstract presentations</b>	
18.50 – 19.00	<b>Panel comments and discussion</b>	

**Key note lecture 2**, chaired by Michele Ciccarelli (Italy)

**19.00 – 19.45** Cardiac cytoskeleton and mechanobiology/Novel biomechanics of the working myocyte/Microtubules and cardiomyocyte dysfunction in heart failure  
**Benjamin Prosser (Philadelphia, USA)**

## Saturday, May 11 (Day 3)

**08.30-10.30 Session 7 organised by the Heart Failure Specialists of Tomorrow (HoT)**

<b>Session title: TITLE TO BE CONFIRMED ASAP</b>		
	Chairpersons	Sean Davidson (UK), Sabine Steffens (Germany)
08.30 – 08.50	Presentation 1	Introduction of HoT; Cardiac effects of physical exercise – help or harm? Tamás Radovits (Semmelweis University, Budapest, Hungary)
08.50 – 09.10	Presentation 2	A Translational Model of Heart Failure with Preserved Ejection Fraction Markus Wallner (Medical University of Graz, Austria and Temple University Lewis Katz School of Medicine, Philadelphia, USA)
09.10 – 09.30	Presentation 3	Vascular tissue engineering - development of arterial grafts Eleonora Zucchelli (UK)
09.30 – 09.50	Presentation 4	Mitochondrial aspects of hereditary cardiomyopathies Eduardo Bertero (University of Würzburg, Germany)
09.50 – 10.10	Presentation 5	Cardiac remodelling: the epigenome remembers! Emma Louise Robinson (Maastricht University, The Netherlands)
10.10 – 10.30	Discussion	

**10.30-11.00 COFFEE BREAK**

**11.00-13.00 Session 8 (organised by the ESC WG on Myocardial Function)**

<b>Session title:</b>		<b>Autophagy as cardioprotective mechanism</b>
	Chairpersons	Serena Zacchigna (Italy), Luc Bertrand (Belgium)
11.00 – 11.20	Senior lecture 1	Receptors for selective mitochondria autophagy Kinya Otsu (King's College, London, UK)
11.20 – 11.25	Discussion	
11.25 – 11.45	Senior lecture 2	Novel autophagy-inducing cytokines Mauro Giacca (London, UK)
11.45 – 11.50	Discussion	
<b>11.50 – 12.50</b>	<b>Abstract presentations</b>	
<b>12.50 – 13.00</b>	<b>Panel comments and discussion</b>	

<b>13.00-14.00</b>	<b>Industry-sponsored lunch talk (tbc)</b>
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**14.00-15.30 COFFEE BREAK AND MODERATED POSTER SESSION**  
Chair: Thomas Thum (Germany), Manuel Mayr (UK), Henrique Girao (Portugal), Bianca Brundel (The Netherlands).

**15.30-16.00 Awards & Farewell**

**Award Lectures/Poster Reviewers:** Jolanda van der Velden (Netherlands), Dana Dawson (UK), Hans Erik Bøtker (Denmark), Maurizio Pesce (Italy)