

# 13<sup>th</sup> Meeting of the Working Group on Myocardial and Pericardial Diseases of the European Society of Cardiology

October, 13 – 15, 2016  
Rostock-Warnemünde



13<sup>th</sup> Meeting of the ESC  
Working Group on Myocardial  
and Pericardial Diseases



Organizing Committee:  
Prof. S. Felix, Prof. A. Caforio, Prof. A. Linhart

Organizer: C.T.I. GmbH

Location: Hotel Hohe Düne



**FROM THE SYMPOSIUM DIRECTORS AND THE  
CHAIRPERSON OF THE MYOCARDIAL AND  
PERICARDIAL DISEASE WORKING GROUP OF THE  
EUROPEAN SOCIETY OF CARDIOLOGY**

Dear colleagues,

It is a particular pleasure for us to welcome you to the 13<sup>th</sup> Meeting of the Myocardial and Pericardial Diseases Working Group of the European Society of Cardiology, to be held in Warnemuende on October 13 – 15, 2016.

Cardiomyopathies and pericardial diseases increasingly occupy cardiologists in clinical and general practice. The diagnostic spectrum of these diseases has markedly expanded during the last decade and encompasses imaging, histology, immunology, genetics and molecular biology. Likewise, treatment of cardiomyopathies is still a major challenge for the attending physicians and requires further research efforts.

For the program of this meeting, we tried to balance between basic and clinical science and we also considered the broad field of diagnostics and therapy of heart failure. As in the previous meetings of our working group, the main program is preceded by practice-oriented **Mini-courses** with **How-to sessions** and case study presentations. Again, novel options in clinical and basic research such as next generation genetic testing, non-coding genome in myocar-

dial disease, gene therapy and innovative pharmacological approaches for heart failure treatment as well as device therapy will be discussed. The congress program will cover all relevant practical and scientific aspects of this challenging field including introduction of innovative diagnostic and therapeutic procedures. We hope that the broad range of topics will attract the interest of a wide audience, including physicians, clinical researchers, cardiologists, pathologists, basic scientists, and young investigators. The congress also aims to stimulate further research in the topics of our Working group.

We cordially welcome you to the meeting in Warnemünde and wish all of you informative and exciting days as well as open and stimulating discussions and new insights for all research activities and the mutual care of our patients.

We look forward to seeing you in Warnemuende at the coast of the Baltic Sea in October.

Prof. S. Felix

Prof. A. L. P. Caforio

Prof. A. Linhart



## Program

### Day 1 • 13 October 2016

12:00–14:00 **Nucleus Meeting of WG on Myocardial and Pericardial Disease**

08:30–16:30 Concurrent minicourses:

**How-to session for young cardiologists: Differential diagnosis and management in the cardiomyopathies** (extra educational mini-course 1)

Chairs: *E. Biagini, A. Linhart*

08:30–08:50 **A clinical case of sarcomeric HCM – How to reach the diagnosis and how to manage**

*A. Milandri*

08:50–09:10 Interactive discussion with the audience and chairs

09:10–09:30 **Guidance to genetic analysis and genetic counseling**

*L. Monserrat*

09:30–09:50 Interactive discussion with the audience and chairs

09:50–10:10 **The red flags approach in sarcomeric HCM: Take home messages**

*E. Biagini*

10:10–10:30 Coffee break

10:30–10:50 **A clinical case of non-sarcomeric HCM – How to reach the diagnosis**

*D. Rob*

10:50–11:10 Interactive discussion with the audience and chairs

11:10–11:30 **A clinical case of non sarcomeric HCM – How to manage**

*J. Marek*

11:30–11:50 Interactive discussion with the audience and chairs

11:50–12:10 **The red flags approach in non-sarcomeric HCM: Take home messages**

*A. Linhart*

12:10–13:00 Lunch

Chairs: *P. Garcia-Pavia, A. Keren*

13:00–13:20 **A clinical case of restrictive familial cardiomyopathy – How to reach the diagnosis**

*E. Gonzalez-Lopez*

13:20–13:40 Interactive discussion with the audience and chairs



## Program

### Day 1 • 13 October 2016

- 13:40–14:00 **A clinical case of restrictive familial cardiomyopathy – How to manage**  
*E. Gonzalez-Lopez*
- 14:00–14:20 Interactive discussion with the audience and chairs
- 14:20–14:40 **The red-flag approach in restrictive familial cardiomyopathy: Take home messages**  
*P. Garcia-Pavia*
- 14:40–15:00 **A clinical case of restrictive non-familial cardiomyopathy – How to reach the diagnosis**  
*A. Turyan Medvedovsky*
- 15:00–15:20 Interactive discussion with the audience and chairs
- 15:20–15:40 **A clinical case of restrictive non-familial cardiomyopathy – How to manage**  
*A. Turyan Medvedovsky*
- 15:40–16:00 Interactive discussion with the audience and chairs
- 16:00–16:20 **The red flags approach in restrictive non-familial cardiomyopathy: Take home messages**  
*A. Keren*

**How-to session for young cardiologists:  
Interventional procedures in inflammatory /  
infectious myocardial and pericardial disease**

(extra educational minicourse 2)

**Chairs: A. Frustaci, K. Klingel**

- 08:30–08:50 **A clinical case of clinically suspected infectious myocarditis – How to reach the diagnosis**  
*C. Chimenti*
- 08:50–09:10 Interactive discussion with the audience and chairs
- 09:10–09:30 **A clinical case of biopsy-proven infectious myocarditis – How to manage**  
*C. Chimenti*
- 09:30–09:50 Interactive discussion with the audience and chairs
- 09:50–10:10 **The EMB work-up of infectious and non infectious myocarditis: Take home messages from the pathologist**  
*K. Klingel*
- 10:10–10:30 Coffee break



## Program

### Day 1 • 13 October 2016

- |                                     |  |             |   |
|-------------------------------------|--|-------------|---|
| 10:30–10:50                         | <b>A clinical case of clinically suspected non infectious myocarditis – How to reach the diagnosis</b><br><i>I. Kindermann</i> | 13:40–14:00 | <b>A clinical case of Cardiac tamponade – How to manage</b><br><i>I. Milinkovic</i>   |
| 10:50–11:10                         | Interactive discussion with the audience and chairs  | 14:00–14:20 | Interactive discussion with the audience and chairs   |
| 11:10–11:30                         | <b>A clinical case of biopsy-proven non infectious myocarditis – How to manage</b><br><i>I. Kindermann</i>                     | 14:20–14:40 | <b>Cardiac tamponade and pericardial biopsy: Take home messages from the interventional cardiologist</b><br><i>A. Ristic</i>                      |
| 11:30–11:50                         | Interactive discussion with the audience and chairs  | 14:40–15:00 | <b>A clinical case of refractory recurrent pericarditis – How to reach the diagnosis</b><br><i>A. Battaglia</i>                                   |
| 11:50–12:10                         | <b>The clinical and diagnostic role of EMB: Take home messages from the interventional cardiologist</b><br><i>A. Frustaci</i>  | 15:00–15:20 | Interactive discussion with the audience and chairs   |
| 12:10–13:00                         | Lunch  | 15:20–15:40 | <b>A clinical case of refractory recurrent pericarditis – How to manage</b><br><i>A. Battaglia</i>  |
| <b>Chairs: M. Imazio, A. Ristic</b> |  | 15:40–16:00 | Interactive discussion with the audience and chairs   |
| 13:00–13:20                         | <b>A clinical case of Cardiac tamponade – How to reach the diagnosis</b><br><i>I. Milinkovic</i>                               | 16:00–16:20 | <b>Refractory recurrent pericarditis and chronic pericardial effusions: Take home messages from the clinical cardiologist</b><br><i>M. Imazio</i> |
| 13:20–13:40                         | Interactive discussion with the audience and chairs  |             |   |



## Program

Day 1 • 13 October 2016

### How-to session for young cardiologists: Integrated cardiovascular imaging in the cardiomyopathies

(extra educational mini-course 3)

Chairs: *M. Arad, R. Strasser*

- 08:30–08:50 **A clinical case of clinically suspected storage cardiomyopathy – How to reach the diagnosis**  
*F. Heidrich*
- 08:50–09:10 Interactive discussion with the audience and chairs
- 09:10–09:30 **A clinical case of proven storage cardiomyopathy – How to manage**  
*F. Heidrich*
- 09:30–09:50 Interactive discussion with the audience and chairs
- 09:50–10:10 **Role of CMR in diagnosis and management of storage cardiomyopathies: When is it the gold standard? Take home messages**  
*R. Strasser*
- 10:10–10:30 Coffee break

- 10:30–10:50 **A clinical case of clinically suspected metabolic cardiomyopathy – How to reach the diagnosis**  
*D. Lotan*
- 10:50–11:10 Interactive discussion with the audience and chairs
- 11:10–11:30 **A clinical case of clinically suspected metabolic cardiomyopathy – How to manage**  
*D. Lotan*
- 11:30–11:50 Interactive discussion with the audience and chairs
- 11:50–12:10 **Metabolic cardiomyopathies made simple: Take home messages from the clinical cardiologist**  
*M. Arad*
- 12:10–13:00 Lunch



## Program

Day 1 • 13 October 2016

Chairs: *G. Limongelli, K. Wahbi*

13:00–13:20 **A clinical case of suspected cardiomyopathy with associated myopathy in the adult – How to reach the diagnosis**

*M. Sochala*

13:20–13:40 Interactive discussion with the audience and chairs

13:40–14:00 **A clinical case of cardiomyopathy with associated myopathy in the adult – How to manage**

*M. Sochala*

14:00–14:20 Interactive discussion with the audience and chairs

14:20–14:40 **Cardiomyopathies with associated myopathies in the adult: Differential diagnosis and take-home messages**

*K. Wahbi*

14:40–15:00 **A clinical case of cardiomyopathy with associated myopathy in the pediatric age – How to reach the diagnosis**

*D. Masarone*

15:00–15:20 Interactive discussion with the audience and chairs

15:20–15:40 **A clinical case of cardiomyopathy with associated myopathy in the pediatric age – How to manage**

*D. Masarone*

15:40–16:00 Interactive discussion with the audience and chairs

16:00–16:20 **Cardiomyopathies with associated myopathies in the pediatric age: Differential diagnosis and take-home messages**

*G. Limongelli*



## Program

Day 1 • 13 October 2016

### Program

#### Plenary room

- 16:45–17:00 **Official opening: Welcome by Scientific directors and by the Myocardial and Pericardial Diseases ESC Working Group**  
Chairs: *A. L. Caforio, A. Linhart*
- 16:45–19:30 **Session 1**  
**Inaugural session** (educational session 1)  
**Diagnosis of cardiomyopathies**  
Chairs: *A. L. Caforio, S. B. Felix*
- 17:00–17:25 **Definition and classification – An overview**  
**Genetic testing is superior to biopsy of the myocardium in cardiomyopathy**  
*Y. Pinto*
- 17:25–17:50 **Pro**  
*H. Katus*
- 17:50–18:15 **Contra**  
*H.-P. Schultheiss*
- 18:15–18:40 **Advances in imaging: Echocardiography, MRI, CT and PET – What is essential for diagnostic work-up?**  
*A. Linhart*
- 18:40–19:05 **The MOGE(S) Classification for a phenotype-genotype nomenclature of cardiomyopathy**  
*E. Arbustini*
- 19:05–19:30 **Prognostic Relevance of gene-environment interactions in patients with dilated cardiomyopathy**  
*S. Heymans*

Day 2 • 14 October 2016

#### Plenary room

- 08:30–10:10 **Session 2**  
**Personalized medicine for diagnosis and treatment of myocarditis and inflammatory cardiomyopathy**  
(educational session 2)  
Chairs: *A. Anastasakis, R. Jahns*
- 08:30–08:55 **Diagnostic work up in myocarditis and DCM**  
*M. Dörr*
- 08:55–09:20 **Endomyocardial biopsy is essential for diagnosis**  
*K. Klingel*
- 09:20–09:45 **Role of cardiovascular magnetic resonance**  
*J. Schulz-Menger*
- 09:45–10:10 **From evidence-based treatment to future direction for research in inflammatory cardiomyopathy**  
*U. Eriksson*
- 10:10–10:40 **Coffee break**





## Program

Day 2 • 14 October 2016

08:30–10:30 **Concurrent Session 2**  
**Hypertrophic cardiomyopathy: From bench to bedside** (educational session 3)  
Chairs: *P. Elliott, A. Rigopoulos*

08:30–08:50 **Stepwise approach for risk stratification**  
*P. Elliott*

08:50–09:10 **Next generation genetic testing – What next:**  
*J. Mogensen*

09:10–09:30 **Gene therapy for inherited sarcomeric pediatric cardiomyopathy**  
*L. Carrier*

09:30–09:50 **Evidence-based medical treatment**  
*J. Olivotto*

09:50–10:10 **Evidence-based percutaneous gradient ablation**  
*H. Seggewiss*

10:10–10:30 **Surgical therapies**  
*P. Ferrazzi*

10:30–11:00 **Coffee break**

## Plenary room

10:40–12:35 **Session 3**  
**Myocardial involvement in systemic immune-mediated diseases: Focus on the myocardial and pericardial disease Position paper** (educational session 4)  
Chairs: *E. Arbustini, A. L. Caforio*

10:40–11:05 **Systemic autoimmune diseases and cardiac involvement: Focus on animal models and common mechanisms**  
*V. Poli*

11:05–11:30 **What's new: The cardiac pathologist's point of view**  
*C. Basso*

11:30–11:55 **What's new: The cardiologist's point of view**  
*S. B. Felix*

11:55–12:20 **What's new: The immunologist's point of view**  
*R. Marcolongo*

12:20–12:35 **What next:**  
*U. Eriksson*

12:35–14:00 **Lunch**



## Program

Day 2 • 14 October 2016

11:00–13:30 **Concurrent Session 3**  
**The Noncoding genome in myocardial diseases – Pathogenic implications and therapeutic perspectives for the cardiomyopathies** (extra-educational session 4)  
Chairs: *M. Arad, P. Charron*

11:00–11:25 **Noncoding RNAs in cardiovascular disease – Status of clinical translation**  
*T. Thum*

11:25–11:50 **MicroRNAs in cardiac fibrosis and hypertrophy**  
*S. Engelhardt*

11:50–12:15 **Monocyte-directed RNAi in cardiac inflammation**  
*F. Leuschner*

12:15–12:40 **Gene editing**  
*J.-S. Hulot*

12:40–13:05 **Methylome**  
*B. Meder*

13:05–13:30 **Gene and microRNA based therapies for heart failure**  
**Status of clinical translation**  
*R. Hajjar*

13:30–14:30 **Lunch**

## Plenary room

14:00–17:55 **Session 4**  
**Diastolic and systolic dysfunction in heart failure and the cardiomyopathies – From diagnosis to treatment** (extra educational session 5)  
Chairs: *M. Fu, A. Ristic*

14:00–14:25 **Stepwise diagnostic approach**  
*C. Tschöpe*

14:25–14:50 **Current evidence on treatment of patients with chronic systolic heart failure**  
*A. Ristic*

14:50–15:15 **Immunoabsorption as a treatment option in DCM**  
*S. B. Felix*

15:15–15:40 **Cardiac implantable electronic devices in systolic heart failure**  
*M. Busch*

15:40–16:05 **Systolic heart failure: New drugs in the pipeline**  
*B. Pieske*

16:05–16:30 **Coffee break**



## Program

Day 2 • 14 October 2016

- 16:30–16:55 **New treatment options for diastolic dysfunction**  
*G. Hasenfuß*
- 16:55–17:55 **Keynote Lecture**  
**Myocardial regeneration in the cardiomyopathies – A therapeutic option?**
- Basic research**  
*T. Eschenhagen*
- Clinical trials**  
*S. Janssens*

- 14:30–18:20 **Concurrent Session 4**  
**Rare myocardial diseases – From diagnosis to treatment**  
(educational session 5)  
Chairs: *A. L. Caforio, H. Madeira*
- 14:30–14:55 **Pediatric diseases**  
*G. Limongelli*
- 14:55–15:20 **Anderson-Fabry disease**  
*A. Linhart*
- 15:20–15:45 **Glycogen storage disease**  
*M. Arad*
- 15:45–16:10 **Amyloidosis**  
*C. Rapezzi*
- 16:10–16:35 **Neuro-muscular disease**  
*A. Pantazis*
- 16:35–16:55 **Coffee break**
- 16:55–17:20 **Inflammatory cardiomyopathies**  
*C. Basso*
- 17:20–18:20 **Keynote Lecture**  
**Rare cardiomyopathies-challenges and opportunities**  
*P. Elliott*



## Program

Day 3 • 15 October 2016

### Plenary room

08:30–09:30 **Session 5**  
**Diagnosis and treatment of pericardial diseases – Focus on the 2015 Guidelines** (educational session 6)  
Chairs: *S. Pankuweit, A. Ristic*

08:30–08:55 **Clinical and diagnostic work-up**  
*B. Maisch*

08:55–09:20 **Medical treatment**  
*M. Imazio*

09:20–09:30 **What next:**  
*Y. Adler*

09:30–09:45 **Young Investigator Awards**

09:45–10:05 **Coffee break**

10:05–12:35 **Session 6**  
**Acute decompensated chronic heart failure – A diagnostic and therapeutic challenge in cardiomyopathies of different aetiologies** (educational session 7)  
Chairs: *S. Blankenberg, A. Keren*

10:05–10:30 **The diagnostic accuracy of the natriuretic peptides in heart failure**  
*J. Mant*

10:30–10:55 **New drugs for treatment of acute decompensated heart failure**  
*V. Mitrovic*

10:55–11:20 **Ultrafiltration in patients with acute decompensated chronic heart failure**  
*G. Marezi*

11:20–11:45 **Impella ventricular support in patients with cardiogenic shock**  
*M. Ferrari*

11:45–12:10 **Emergency extracorporeal membrane oxygenation (ECMO) in patients with cardiogenic shock**  
*S. Beurtheret*

12:10–12:35 **Keynote Lecture**  
**Auto-immune mechanisms in myocarditis and dilated cardiomyopathy**  
*A. L. Caforio*



## Program

Day 3 • 15 October 2016

- 10:05–12:15 **Concurrent Session 6**  
**Arrhythmogenic cardiomyopathies**  
(educational session 8)  
Chairs: *A. Anastasakis, P. Elliott*
- 10:05–10:30 **Genetic diagnosis – An update for the clinician**  
*E. Arbustini*
- 10:30–10:55 **Pathology – Still the gold standard?**  
*C. Basso*
- 10:55–11:20 **Clinical and non-invasive work-up**  
*A. Tsatsopoulou*
- 11:20–11:45 **Risk stratification**  
*T. Wichter*
- 11:45–12:15 **Keynote Lecture**  
**Treatment of ARVC: Key messages from the international and future perspectives**  
*D. Corrado*

## General Information

### Organizing Committee

Alida Caforio  
Stephan Felix  
Aleš Linhart

### Conference chair

Prof. Dr. Stephan Felix  
University Medicine Greifswald  
Department of Internal Medicine B

### Organizer

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### Congress venue

Hotel Hohe Düne  
Am Yachthafen 1, 18119 Rostock-Warnemünde  
www.hohe-duene.de

### Conference language

English is the official language.

### Posters

Posters will be displayed during the whole period of scientific sessions.

### Registration

<http://www.cardiomyopathies2016.com/>



## Faculty (invited)

Yehuda Adler, Ramat Gan IL  
Yannick Allanore, Paris FR  
Aris Anastasakis, Athens GR  
Michael Arad, Ramat Gan IL  
Eloisa Arbustini, Pavia IT  
Cristina Basso, Padua IT  
Alberto Battaglia, Turin IT  
Sylvain Beurtheret, Paris FR  
Elena Biagini, Bologna IT  
Stefan Blankenberg, Hamburg DE  
Mathias Busch, Greifswald DE  
Alida L.P. Caforio, Padua IT  
Lucie Carrier, Hamburg DE  
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Cristina Chimenti, Rome IT  
Domenico Corrado, Padua IT  
Marcus Dörr, Greifswald DE  
Perry Elliott, London UK  
Stefan Engelhardt, Munich DE  
Urs Eriksson, Wetzikon CH  
Thomas Eschenhagen, Hamburg DE  
Stephan B. Felix, Greifswald DE  
Markus Ferrari, Wiesbaden DE  
Paolo Ferrazzi, Monza IT  
Andrea Frustaci, Rome IT  
Michael Fu, Göteborg, SE  
Pablo García Pavia, Madrid ES  
Esther Gonzalez Lopez, Madrid ES  
Roger Hajjar, New York USA  
Gerd Hasenfuß, Göttingen DE  
Felix Heidrich, Dresden DE  
Stephane Heymans, Maastricht NL  
Jean-Sébastien Hulot, Paris FR  
Massimo Imazio, Turin IT  
Roland Jahns, Würzburg DE  
Stefan Janssens, Leuven BE  
Hugo Katus, Heidelberg DE  
Andre Keren, Jerusalem IL  
Ingrid Kindermann, Homburg DE  
Karin Klingel, Tübingen DE

Florian Leuschner, Heidelberg DE  
Giuseppe Limongelli, Naples IT  
Aleš Linhart, Prague CZ  
Dor Lotan, Ramat Gan IL  
Hugo Madeira, Lisbon PT  
Bernhard Maisch, Marburg DE  
Jonathan Mant, Cambridge UK  
Renzo Marcolongo, Padua IT  
Josef Marek, Prague CZ  
Giancarlo Marenzi, Milan IT  
Daniele Masarone, Naples IT  
Benjamin Meder, Heidelberg DE  
Agnese Milandri, Bologna IT  
Ivan Milinkovic, Belgrade RS  
Veselin Mitrovic, Bad Nauheim DE  
Jens Mogensen, Odense DK  
Lorenzo Monserrat, Madrid ES  
Iacopo Olivetto, Florence IT  
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Valeria Poli, Turin IT  
Claudio Rapezzi, Bologna IT  
Angelos Rigopoulos, Schweinfurt DE  
Arsen Ristic, Belgrade RS  
Daniel Rob, Prague CZ  
Heinz-Peter Schultheiss, Berlin DE  
Jeannette Schulz-Menger, Berlin DE  
Petar Seferović, Belgrade RS  
Hubert Seggewiss, Schweinfurt DE  
Maximilien Sochala, Paris FR  
Ruth Strasser, Dresden DE  
Thomas Thum, Hannover DE  
Adalena Tsatsopoulou, Naxos GR  
Carsten Tschöpe, Berlin DE  
Anna Turyan Medvedovsky, Jerusalem IL  
Karim Wahbi, Paris FR  
Thomas Wichter, Osnabrück DE



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### Transparency / Transparenz

Gemäß FSA-Kodex geben wir die Höhe der Beteiligung folgender Unternehmen für die Einräumung von Werberechten und Standfläche im Rahmen der Veranstaltung bekannt: Bayer Vital GmbH € 15.000; Berlin-Chemie AG € 10.000; HeartWare GmbH € 3.000; Novartis Pharma GmbH € 30.000; Orion Pharma GmbH € 3.000; Servier Deutschland GmbH € 3.000; Shire International GmbH € 15.000; St. Jude Medical GmbH € 10.000; Xenios AG € 3.000

