

PROMOTED BY



FONDAZIONE  
INTERNAZIONALE  
MENARINI

# INTERNATIONAL CLOSED WORKSHOP

Ragusa

23<sup>rd</sup> - 24<sup>th</sup> June 2017

*Cardiac imaging in clinical  
practice: the challenges that  
we have won and those that  
still lie ahead*



## Learning Objectives

At a time of great vivacity and of progress of cardiac imaging, it is my pleasure to introduce the International Workshop “**Cardiac Imaging In Clinical Practice**” that aims to take stock of “**the challenges that we have won and those that still lie ahead**” in the difficult path of the heart disease diagnosis.

The meeting will be divided into 4 mini-courses, with a very practical cut, where the current progress of various imaging techniques and of newest applied software will be highlighted. Furthermore, for each topic, the future applications of more advanced cardiac imaging, still under refinement, will be anticipated.

The four mini-courses will be completely dedicated to the most important cardiac imaging technologies in order to focus on specific modalities that are: 3D echocardiography, strain and vortex flow imaging, cardiac magnetic resonance and multimodality imaging.

Main topics of the mini courses are: valve heart disease, heart failure, cardiomyopathies, disease of the aorta, coronary artery disease, arrhythmias, cardiac resynchronization therapy and structural interventional cardiology.

Before or at the end of each course, one or more “breakingnews” lectures will be held by experts international cardiologists.

The lectures will face subjects of clinical cardiology (cardiac oncology, translational medicine, arrhythmias, cardiomyopathies, coronary artery disease etc.) and of cardiac imaging (advanced evaluation of systolic function, role of imaging in percutaneous valve procedures, fusion imaging, imaging of myocardial fibrosis, nuclear imaging in endocarditis and imaging of pericardial disease).

The international workshop will be opened to invited physicians who will have a unique chance to share their knowledge and expertise in the field of cardiac diseases management through advanced cardiac imaging.

Enjoy the meeting and your stay in Ragusa!

*Titti Zito*

# FACULTY

NINA AJMONE MARSAN	Amsterdam (NL)	ROBERTA MANGANARO	Messina
FRANCESCO ANTONINI CANTERIN	Pordenone	AGATINO MANGANARO	Messina
GIOVANNI DONATO AQUARO	Pisa	SANTI MANGANO	Messina
FRANCESCO ARRIGO	Messina	DONATO MELE	Ferrara
LUIGI BADANO	Padova	SOFIA MICELI	Catanzaro
SERGIO BALDARI	Messina	ALESSANDRO MIGLIORATO	Messina
FRANK BENEDETTO	Reggio Calabria	INES MONTE	Catania
MATTEO BERTINI	Ferrara	ANTONINO NICOSIA	Ragusa
JAN BOGAERT	Bruxelles (BE)	GIUSEPPINA NOVO	Palermo
CLOTILDE BUCETI	Messina	SALVATORE NOVO	Palermo
MARIA PIA CALABRÒ	Messina	LILIA ORETO	Messina
VALERIA CALVI	Catania	GIUSEPPE ORETO	Messina
SCIPIONE CARERJ	Messina	LEONARDO PATANE'	Catania
RODOLFO CITRO	Salerno	GIANNI PEDRIZZETTI	Firenze
PASQUALE CREA	Messina	LEOPOLDO PEREZ DE ISLA	Madrid (ES)
MAURIZIO CUSMÀ PICCIONE	Messina	GIUSEPPE PICCIOLO	Messina
WANDA D'ESTE	Catania	ALESSANDRO PINGITORE	Livorno
GIANLUCA DI BELLA	Messina	FAUSTO PINTO	Lisbona (PT)
ROCCO DONATO	Messina	FRANCESCO PITROLO	Palermo
GABRIELLA FALANGA	Messina	JUAN CARLOS PLANA	Houston (USA)
FRANCESCO FALETRA	Lugano (CH)	ABHIRAM PRASAD	Minneapolis (USA)
SALVATORE FELIS	Catania	SALVATORE SCANDURA	Catania
CLAUDIO FRANZUTTI	Reggio Calabria	GIANCARLO SELVAGGIO	Comiso
GUIDO GIORDANO	Catania	MARCO TESCIONE	Reggio Calabria
BIJOY KHANDHERIA	Milwaukee (USA)	CARLO GABRIELE TOCCHETTI	Napoli
GIOVANNI LA CANNA	Milano	MARIA CHIARA TODARO	Messina
SALVATORE LA CARRUBBA	Palermo	MARIA PAOLA TRIFIRO'	Messina
MASSIMO LOMBARDI	San Donato Milanese	OLGA VRIZ	San Daniele del Friuli
FRANCESCO LUZZA	Messina	CONCETTA ZITO	Messina

# MORNING Friday, June 23<sup>rd</sup>, 2017

**10:00** Registration of participants and welcome coffee

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**10:30** **Opening Ceremony**

Greetings from University of Messina Authorities and from:

*Prof. D. Cucinotta* Director of Clinical and Experimental Medicine Department  
AOU Policlinico G. Martino University of Messina

*Prof. G. Oreto* Director of Cardiology and CCU and of Postgraduate School in  
Cardiovascular Diseases - AOUPoliclinico G. Martino University of Messina

*Dr. F. De Luca* Head of Unit for Patients' Safety and HTA - Health Department of Region Sicily

*Prof. S. Carerj* Director of Non invasive Cardiovascular Diagnostics Unit  
AOU Policlinico G. Martino University of Messina

*Dr. G. Caracciolo* International Scientific Director Fondazione Internazionale Menarini

*Dr. C. Zito* Assistant Professor of Cardiovascular Disease  
AOU Policlinico G. Martino University of Messina

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## OPENING LECTURE

**11:00** Cardiac Imaging in 2017. From M-mode to the Fusion: is a true evolution?

SPEAKER: *F. Pinto*

PRESENTER: *S. Carerj*

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## COURSE 1 - 11:30 / 13:00

### 3D ECHOCARDIOGRAPHY FROM THE BASIC TO THE FUTURE

CHAIRPERSONS: *A. Mangano, F. Benedetto, S. Novo*

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**11:30** CARDIAC ANATOMY: HOW TO ACQUIRE, HOW TO DISPLAY

*F. Faletta*

**11:50** CHAMBER QUANTIFICATION AND STRAIN:

HOW TO COMPARE WITH 2D REFERENCE VALUES

*L. Perez De Isla*

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**12:10** MITRAL VALVE: PRESENT AND FUTURE OF 3D-ECHO

*G. La Canna*

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**12:30** TRICUSPID VALVE: THE NEW FRONTIER

*L. Badano*

### Discussion 12:50 / 13:00

DISCUSSANTS: *G. Selvaggio, M. Cusmà Piccione, S. Scandura, M. P. Trifirò*

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## STATE OF THE ART LECTURE

**13:00** Hypertrophic Cardiomyopathy: 50 year odyssey

SPEAKER: *B. Khandheria*

PRESENTER: *R. Citro*

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**13:30** Lunch

## AFTERNOON Friday, June 23<sup>rd</sup>, 2017

### BREAKING NEWS LECTURE

- 15:30** Bye, Bye EF  
SPEAKER: *J. C. Plana*  
PRESENTER: *G. Novo*

### COURSE 2 - 16:00 / 17:30

#### DEFORMATION IMAGING AND FLUID DYNAMICS TO DATE

CHAIRPERSONS: *V. Calvi, M. P. Calabrò, F. Pitrolo*

- 16:00** GLS FROM THE BENCH TO THE BEDSIDE AND FUTURE CHALLENGES  
*C. Zito*
- 16:20** OFF-LABEL APPLICATIONS OF 2D STRAIN: WHAT WE HAVE LEARNED  
*S. Carerj*
- 16:40** STRAIN TO PREDICT ARRHYTHMIAS: TODAY AND TOMORROW  
*D. Mele*
- 17:00** FLUID DYNAMIC:  
CARDIAC RESYNCRONIZATION THERAPY AND BEYOND  
*G. Pedrizzetti*

#### Discussion 17:20 / 17:40

DISCUSSANTS: *C. Buceti, S. La Carrubba, S. Miceli, L. Oreto, G. Picciolo*

- 17:40** Coffee break

### LECTURES POINT

#### Hot topics in clinical cardiology

- 18:00** Cardioncology 2017  
SPEAKER: *J. C. Plana*  
PRESENTER: *I. P. Monte*
- 18:30** Translational research in the quest for novel HF therapies  
SPEAKER: *C. G. Tocchetti*  
PRESENTER: *M. Tescione*
- 20:00** Dinner

# MORNING Saturday, June 24<sup>th</sup>, 2017

## EXPERT READING

- 09:00** Myocardial fibrosis by CMR: from reparative to interstitial fibrosis  
SPEAKER: *M. Lombardi*  
PRESENTER: *F. Antonini Canterin*

## COURSE 3 - 09:30 / 11:00

### MAGNETIC RESONANCE IMPROVES

CHAIRPERSONS: *G. Oreto, F. Arrigo, S. Carerj*

- 09:30** CARDIAC IMAGING OF MYOCARDIAL ISCHEMIA  
*A. Pingitore*

- 09:50** CARDIAC IMAGING OF MYOCARDITIS  
*J. Bogaert*

- 10:10** CARDIAC IMAGING OF CARDIOMYOPATHIES  
*G. Di Bella*

- 10:30** CARDIAC IMAGING OF SUDDEN DEATH  
*G. Aquaro*

### Discussion 10:50 / 11:10

DISCUSSANTS: *G. Falanga, R. Donato, C. Franzutti, M. C. Todaro*

- 11:10** Coffee break

## KEY NOTE LECTURES

### Challenges in Cardiology

- 11:40** LV Non Compaction: State of the Art Imaging  
SPEAKER: *B. Khandheria*  
PRESENTER: *F. Luzza*

- 12:10** Takotsubo cardiomyopathy: a comprehensive overview  
SPEAKER: *A. Prasad*  
PRESENTER: *O. Vriz*

- 12:40** Pathophysiology of functional tricuspid regurgitation: new insights from 3D echocardiography  
SPEAKER: *L. Badano*  
PRESENTER: *C. Zito*

- 13:15** Lunch

## AFTERNOON Saturday, June 24<sup>th</sup>, 2017

### **COURSE 4 - 14:45 / 16:15**

#### **MULTIMODALITY IMAGING HAS BEEN INCLUDED IN**

CHAIRPERSONS: *S. Felis, L. Patanè, A. Nicosia*

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**14.45** TAVR PROCEDURE

*L. Perez De Isla*

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**15.05** INTERVENTIONAL MITRAL VALVE PROCEDURES

*B. Khandheria*

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**15.25** ICD AND CRT IMPLANTATIONS

*M. Bertini*

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**15.45** AORTIC DISEASE MANAGEMENT

*N. Ajmone Marsan*

**Discussion 16:05 / 16:15**

DISCUSSANTS: *R. Mangano, P. Crea, S. Mangano, G. Giordano*

Coffee station

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### **EXPERT READINGS**

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**16.15** Cardiac Multimodality Imaging in Coronary Artery Disease

SPEAKER: *F. Pinto*

PRESENTER: *F. Benedetto*

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**16.45** Fusion Imaging: are we ready?

SPEAKER: *F. Faletra*

PRESENTER: *W. D'Este*

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**17.15** Nuclear Medicine Imaging in Endocarditis

SPEAKER: *S. Baldari*

PRESENTER: *A. Migliorato*

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### **CLOSURE LECTURE**

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**17.45** Pericardial Imaging

SPEAKER: *J. Bogaert*

PRESENTER: *G. Di Bella*

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**18.15** **CLOSING REMARKS**

SPEAKER: *C. Zito*

## MEETING VENUE

### **Donnafugata Congress Centre**

*Contrada Piombo. 97100 RAGUSA - Ph. +39 0932 914264*

- *Lunches and coffee breaks will be served in the Meeting area*
- *Participants will receive the Abstract book at the Meeting*

## SCIENTIFIC DIRECTOR

### **Concetta Zito**

*Cardiology - Department of Clinical and Experimental Medicine - University of Messina*

## CO-PRESIDENTS OF THE WORKSHOP

### **Scipione Carerj & Giuseppe Oreto**

*Cardiology - Department of Clinical and Experimental Medicine - University of Messina*

## INTENDED AUDIENCE

This workshop is intended for cardiologists, sonographers, cardiac surgeons, interventional cardiologists, cardiovascular fellows

## PROMOTED BY

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## ORGANIZING SECRETARIAT

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