



# Mediterranea Cardiac Surgery Symposia

Scientific Director Prof. Luigi Chiariello

**Monday  
October 14, 2019**

Auditorium G. Zannini  
Mediterranea - Napoli

## CARDIOVASCULAR DISEASES: A CHALLENGE FOR MEDICAL ENGINEERING

### PROGRAM

- 14.15 Registration  
14.45 F. Maderna - Welcome Address  
14.50 F. Maceri - Introduction
- Chairmen: E. Cappello, G. Iannelli, E. Sacco
- 15.00 T. C. Gasser - Vascular Biomechanics Simulation Linked to Neural Network Modeling towards Improvement of Aneurysm Treatment  
15.20 S. Avril - Computational Prediction of Endograft Placement in Complex Aortic Aneurysm Repair  
15.40 M. Marino - Predicting Evolution of Vascular Pathologies: from Blood-Tissue Interaction to Cell-Activated Remodelling  
16.00 Discussants: M. Scarpello, G. Solimeno  
16.15 LECTIO MAGISTRALIS  
President: L. Chiariello  
A. Finazzi Agrò - "Medicine from Art to Science"  
16.45 Coffee Break
- Chairmen: F. Maceri, P. Perrone Filardi
- 17.20 R. Verzicco - Electro-Fluid-Mechanics of the Left Heart  
17.40 S. Celi - Role and Perspective of Uncertain Quantification Approach: from Clinical Data to Numerical Models  
18.00 G. Vairo - Medical Engineers at Bedside: When Hippocrates Meets Archimedes  
18.20 Discussants: F. Caselli, I. Cecchi, A. Desoky  
18.40 L. Chiariello - Closing Remarks

### FACULTY

- Prof. Stéphane Avril** - Directeur Centre Ingénierie Santé & SaInBioSE, Ecole des Mines de Saint Etienne, Saint Etienne Cedex 2, France  
**Dr. Enrico Cappello**, UOS Chirurgia Endovascolare, IRCCS Neuromed, Pozzilli  
**Dr. Federica Caselli**, Dipartimento Ingegneria Civile e Ingegneria Informatica Torvergata University of Rome, Rome  
**Ing. Isabella Cecchi**, Bioengineering Unit, Mediterranea, Naples  
**Dr. Simona Celi PhD** - Group Leader "BioCardioLab", Fondazione Toscana Gabriele Monasterio, Massa  
**Prof. Luigi Chiariello** - President and Scientific Director, Mediterranea, Centro Cuore, Napoli  
**Prof. Alessandro Finazzi Agrò** - Professor of Biochemistry former Rettore Torvergata University of Rome, Rome  
**Dr. Ahmed Desoky**, Centro Cuore, U.O. Cardiocirurgia, Mediterranea, Naples  
**Prof. Thomas Christian Gasser** - KTH Solid Mechanics, KTH Royal Institute of Technology, Stockholm, Sweden  
**Prof. Gabriele Iannelli** - Cattedra Chirurgia Cardiaca, Federico II University of Naples, Naples  
**Prof. Ing. Franco Maceri** - Department Ingegneria Civile e Ingegneria Informatica, "Tor Vergata", University of Rome, Rome  
**Dr. Francesca Maderna** - Amministratore Delegato, Mediterranea, Naples  
**Ing. PhD Michele Marino** - President Italian Chapter European Society Biomechanics, Group Leader "Predictive Simulations in Biomechanics", Institute Continuum Mechanics, Leibniz Universität, Hannover, Germany  
**Prof. Pasquale Perrone Filardi** - Cattedra Cardiologia Federico II, University of Naples, Naples  
**Prof. Ing. Elio Sacco** - Department Strutture per Ingegneria e Architettura, Federico II, University of Naples, Naples  
**Dr. Mario Scarpello**, Centro Cuore, UO Emodinamica, Mediterranea, Naples  
**Dr. Giovanni Solimeno**, UO Chirurgia Vascolare, Mediterranea, Naples  
**Prof. Ing. Giuseppe Vairo** - Dipartimento Ingegneria Civile e Ingegneria Informatica, "Tor Vergata" University of Rome, Rome  
**Prof. Ing. Roberto Verzicco** - Department Ingegneria Industriale, "Tor Vergata" University of Rome, Rome

### CREDITI E PARTECIPANTI

Evento accreditato con **5 crediti ECM**

ID evento **39-3396**

Aperto a n. **80** partecipanti

Si rilascia attestato di partecipazione. Ingresso gratuito fino ad esaurimento posti previa registrazione e-mail [comunicazioni@clinicamediterranea.it](mailto:comunicazioni@clinicamediterranea.it)

081 72 59 343

Seguici su  

Mediterranea  
Via Orazio, 2 - 80122 Napoli  
[direzionescientifica@clinicamediterranea.it](mailto:direzionescientifica@clinicamediterranea.it)  
tel. 081.7259222 | [www.clinicamediterranea.it](http://www.clinicamediterranea.it)

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