



# CORONARY ARTERY DISEASE RISK IN THE III MILLENNIUM

Bio-Imaging Markers  
and Artificial Intelligence

**OCTOBER, 13<sup>th</sup> - 15<sup>th</sup> 2022**

**FONDAZIONE TOSCANA G. MONASTERIO - CNR AREA, PISA**

IN COLLABORATION WITH CNR INSTITUTE OF CLINICAL PHYSIOLOGY

THE "3I" PISA CONGRESS: "IMAGING, INNOVATION, INTERNATIONAL"

**11,2**  
ECM CREDITS



## FACULTY

**Stephan Achenbach** - Erlangen (DE)

**Daniele Andreini** - Milano (IT)

**Frank Bengel** - Hannover (DE)

**Sergio Berti** - Pisa (IT)

**Filippo Cademartiri** - Pisa (IT)

**Enrico Caiani** - Milano (IT)

**Giovanni Camici** - Zurich (CH)

**Barbara Casadei** - Oxford (UK)

**Chiara Caselli** - Pisa (IT)

**Giancarlo Casolo** - Lucca (IT)

**Marina Ciullo** - Napoli (IT)

**Alberto Clemente** - Pisa (IT)

**Michele Alessandro Coceani** - Pisa (IT)

**Gianluigi Condorelli** - Rozzano (IT)

**Filippo Crea** - Roma (IT)

**Raffaele De Caterina** - Pisa (IT)

**Victoria Delgado** - Barcelona (SP)

**Marc Dweck** - Edinburgh (UK)

**Dimitris Fotiadis** - Ioannina (GR)

**Rocco Friebe** - London (UK)

**Matthias Friedrich** - Montreal (CA)

**Luna Gargani** - Pisa (IT)

**Alessia Gimelli** - Pisa (IT)

**Patricia Iozzo** - Pisa (IT)

**Juhani Knuuti** - Turku (FI)

**Marton Kolossvary** - Budapest (HU)

**Claudia Kusmic** - Pisa (IT)

**Ulf Landmesser** - Berlin (DE)

**Maria Luisa Lavitrano** - Milano (IT)

**Riccardo Liga** - Pisa (IT)

**Vincenzo Lionetti** - Pisa (IT)

**Rosalinda Madonna** - Pisa (IT)

**Andrea Natali** - Pisa (IT)

**Danilo Neglia** - Pisa (IT)

**Oberdan Parodi** - Pisa (IT)

**Daniele Panetta** - Pisa (IT)

**Claudio Passino** - Pisa (IT)

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**Gianluca Pontone** - Milano (IT)

**Fabio Recchia** - Pisa (IT)

**Silvia Rocchiccioli** - Pisa (IT)

**Antonios Sakellarios** - Ioannina (GR)

**Leslee Shaw** - New York (US)

**Rosa Sicari** - Pisa (IT)

**James Thackeray** - Hannover (DE)

**Marco Torre** - Pisa (IT)

**Giuseppe Turchetti** - Pisa (IT)

**Mark Westwood** - London (UK)

## OCTOBER 13<sup>TH</sup> 2022

14.00 Welcome: **M. Torre, F. Recchia**

Program Introduction: **F. Cademartiri, A. Gimelli, P. Iozzo, D. Neglia**

### IMAGING MARKERS OF CAD RISK: EVIDENCE

(**A. Gimelli, D. Neglia**)

14.30 The Current International Landscape: Clinical Use and GLs (**V. Delgado**)

14.45 The Role of Coronary CT Angiography: Plaques Features (**S. Achenbach**)

15.00 Integration of Imaging: Coronary Plaques and Myocardial perfusion (**J. Knuuti**)

15.15 The Continuum of CAD: Do We Need to Image the Risk? (**R. De Caterina**)

15.30 Panel discussion

16.00 Coffee break

### IMAGING MARKERS OF CAD RISK: PERSPECTIVES

(**F. Cademartiri, R. Liga**)

16.15 New Applications of Nuclear Molecular Imaging (**J. Thackeray**)

16.30 New Applications of Cardiac CT (**D. Andreini**)

16.45 New Applications of CMR (**M. Westwood**)

17.00 New Applications of Invasive Coronary Imaging (**M. Coceani**)

17.15 Panel discussion



## **OCTOBER 14<sup>TH</sup> 2022**

### **NON IMAGING MARKERS OF CAD RISK: EVIDENCE**

(A. Natali, D. Neglia)

09.00 Biomarkers of Cad Risk (C. Caselli)

09.15 From Genomics to Metabolomics (G. Condorelli)

09.30 Emerging Residual Risk (U. Landmesser)

09.45 Panel discussion

10.15 Coffee break

### **NON IMAGING MARKERS OF CAD RISK: PERSPECTIVES**

(R. Sicari, L. Gargani)

10.30 Exosomes: the Next Generation Teranostic Tools (V. Lionetti)

10.45 Back to the Future: Lipid Profile or Lipidomics? (S. Rocchiccioli)

11.00 Biobanking, Genetic and Clinical Data (M. Ciullo)

11.15 The Need for "Artificial Brains" (A. Sakellarios)

11.30 Panel Discussion

12.00 Meet the experts

13.00 Lunch break

## OCTOBER 14<sup>TH</sup> 2022

### ARTIFICIAL INTELLIGENCE AND PERSONALIZED IMAGING: THE 2022 EVIDENCE

(O. Parodi, A. Clemente)

14.00 AI and Coronary CT: the Added Value of Radiomics? (M. Kolossvary)

14.15 AI and "CMR Fingerprinting": the "In Vivo" Pathology (M. Friedrich)

14.30 AI Pitfalls in Multimodality Imaging (F. Cademartiri)

14.45 Panel discussion

### ARTIFICIAL INTELLIGENCE AND PERSONALIZED IMAGING: THE 2050 PERSPECTIVE!

(R. De Caterina, C. Passino)

15.15 AI and Integrated Models of CAD Risk (M. Dweck)

15.30 The Future of Artificial Intelligence for Precision Medicine (S. Petersen)

15.45 "Big Data" The New Frontiers of Personalized Medicine (B. Casadei)

16.00 Panel discussion

16.30 Coffee break

### CAD RISK EVALUATION: FROM "COMPLEXITY" TO "SIMPLICITY": NUMBERS VS CLINICS

Presentation: A. Gimelli

16.45 Key Note Lecture: L. Shaw

## **OCTOBER 15<sup>TH</sup> 2022**

### **CAD RISK WITH AGING: FROM "SIMPLICITY" TO "COMPLEXITY": CELLS VS HUMANS**

Presentation: **F. Recchia**

09.00 Key Note Lecture: **G. Camici**

### **NEW HORIZONS OF BASIC RESEARCH TARGETING ATHEROSCLEROTIC DISEASE**

(**P. Iozzo, F. Recchia**)

09.30 Mice Models of Atherosclerosis (**C. Kusmic**)

09.45 Endothelial Cells Damage/Protection (**R. Madonna**)

10.00 Micro-Imaging and Vascular Damage (**D. Panetta**)

10.15 Panel discussion

10.45 Coffee break

### **CAD RISK IN THE III MILLENNIUM: KEEP IT REAL!**

(**G. Casolo, G. Turchetti**)

11.00 Still a Role for Pathophysiology in the AI Era (**F. Crea**)

11.15 One Cent More for My Health (**R. Friebel**)

11.30 E-Health Care, Regulatory and Ethic Issues (**E. Caiani**)

11.45 "Imaging" the Future: the New Challenges (**F. Bengel**)

12.00 Panel discussion

12.30 Concluding Remarks: **F. Cademartiri, A. Gimelli, P. Iozzo, D. Neglia**

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## GENERAL INFORMATION

### VENUE

**Auditorium CNR Pisa** Via G. Moruzzi, 1 - 56124 Pisa, Italy

### ORGANIZING COMMITTEE

Filippo Cademartiri  
Alessia Gimelli  
Danilo Neglia

### SCIENTIFIC DIRECTOR

Danilo Neglia

### ORGANIZING SECRETARIAT

**BBV Gastaldi Events**



Piazza della Vittoria 12/2 - 16121 Genova, Italy  
Tel. +39 010 354556 - Email: [registration@bbvitalia.com](mailto:registration@bbvitalia.com)

### CONGRESS REGISTRATION

The on-line registration for the  
3I Pisa Congress is now open!

**REGISTER ON-LINE NOW**



### SCIENTIFIC COMMITTEE

Filippo Cademartiri  
Chiara Caselli  
Alberto Clemente  
Alessia Gimelli  
Patricia Iozzo  
Danilo Neglia  
Fabio Recchia  
Silvia Rocchiccioli

**ECM: 11,2 ECM Credits** for: Cardiology, Endocrinology, Metabolic Diseases and Diabetology, Internal Medicine, Heart Surgery, Vascular Surgery, Nuclear Medicine, Clinical Pathology, Radiodiagnostic, Biology.

**Registration fee:** € 150,00 (VAT 22% included)

The registration fee includes:

- Admission to Scientific Sessions and Satellite Symposia
- Coffee breaks and lunch and Social Dinner on October 14th
- ECM credits
- Certificate of attendance

### Doctor Under Training

The attendance for Doctor Under Training is free of charge.  
Social Dinner for Doctor Under Training: € 50,00

### PAYMENT

Bank transfer within 5 days from on-line registration.  
C/C Banca Carige S.p.A.  
BBV Italia Srl - IBAN IT03G0617501403000002652080  
Description: 3I Pisa Congress - 6334 <Surname, Name>

### Do you need any help?

For further questions and further information,  
please contact our registration team:

**[registration@bbvitalia.com](mailto:registration@bbvitalia.com) - Tel. +39 010 354556**

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