



CORONARY ARTERY DISEASE RISK IN THE III MILLENNIUM

Bio-Imaging Markers
and Artificial Intelligence

OCTOBER, 13th - 15th 2022

FONDAZIONE TOSCANA G. MONASTERIO - CNR AREA, PISA

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



PROGRAM AT A GLANCE

OCTOBER 13TH MORNING	Pre-Congress Satellite Sessions 09.00-10.30, 11.00-12.30
OCTOBER 13TH AFTERNOON	Sessions 1-2, 14.30-17.30
OCTOBER 14TH MORNING	Sessions 3-4, 09.00-12.00 - HoS 1, 12.00-13.30
OCTOBER 14TH AFTERNOON	Sessions 5-6, 14.30-17.30 - Context, 17.30-18.30 Social dinner
OCTOBER 15TH MORNING	Key Note Lect 1, 09.00-09.30 - Session 7, 09.30-11.00 Key Note Lect 2, 11.00-11.30 - Session 8, 11.30-13.00 Conclusive Remarks 13.00-13.30

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)

Alberto Clemente - Pisa (IT)

Gianluigi Condorelli - Rozzano (IT)

Filippo Crea - Roma (IT)

Raffaele De Caterina - Pisa (IT)

Victoria Delgado - Barcelona (SP)

Marc Dweck - Edinburgh (UK)

Michele Emdin - Pisa (IT)

Dimitris Fotiadis - Ioannina (GR)

Rocco Friebel - 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)

Daniele Panetta - Pisa (IT)

Claudio Passino - Pisa (IT)

Steffen Petersen - London (UK)

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)

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

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

OCTOBER 13TH - Afternoon

IMAGING MARKERS OF CAD RISK

A. Evidence (L. Shaw, D. Neglia)

1. THE CURRENT INTERNATIONAL LANDSCAPE: Clinical use and GLs (**V. Delgado**)
2. THE ROLE OF CORONARY CT ANGIOGRAPHY: Plaques Features (**S. Achenbach**)
3. INTEGRATION OF IMAGING: Coronary plaques and myocardial perfusion (**J. Knuuti**)
4. THE CONTINUUM OF CAD: Do we need to image the Risk? (**R. De Caterina**)
5. Q&A

B. Perspectives (F. Cademartiri, R. Liga)

1. NEW APPLICATIONS OF NUCLEAR MOLECULAR IMAGING (**J. Thackeray**)
2. NEW APPLICATIONS OF SPECTRAL AND MOLECULAR CT (**D. Andreini**)
3. NEW APPLICATIONS OF CMR (**M. Westwood**)
4. NEW APPLICATIONS OF INVASIVE CORONARY IMAGING (**S. Berti**)
5. Q&A



OCTOBER 14TH - Morning

NON IMAGING MARKERS OF CAD RISK

A. Evidence (M. Emdin, A. Natali)

1. BIOMARKERS of CAD RISK (C. Caselli)
2. From GENOMICS to METABOLOMICS (G. Condorelli)
3. EMERGING RESIDUAL RISK (U. Landmesser)
4. "I HAVE A QUESTION!": PANEL DISCUSSION around a real word scenario

B. Perspectives (R. Sicari, L. Gargani)

1. BACK TO THE FUTURE: Lipid profile or Lipidomics? (S. Rocchiccioli)
2. BIOBANKS and Clinical DATABANKS (M. Lavitrano)
3. THE NEED FOR "ARTIFICIAL BRAINS" (A. Sakellarios)
4. Q&A

Sponsored lunch session

OCTOBER 14TH - Afternoon

ARTIFICIAL INTELLIGENCE AND PERSONALIZED IMAGING

A. The 2022 Evidence (D. Fotiadis, A. Clemente)

1. AI AND CORONARY CT: the added value of radiomics (M. Kolossvary)
2. AI AND "CMR FINGERPRINTING": the "in vivo" pathology (M. Friedrich)
3. AI PITFALLS IN MULTIMODALITY IMAGING (G. Pontone)
4. "I HAVE A QUESTION!": PANEL DISCUSSION around a real word scenario

B. The 2050 Perspective! (R. De Caterina, C. Passino)

1. AI AND INTEGRATED MODELS OF CAD RISK (M. Dweck)
2. THE FUTURE OF ARTIFICIAL INTELLIGENCE FOR PRECISION MEDICINE (S. Petersen)
3. "BIG DATA" The new frontiers of Personalized Medicine (B. Casadei)
4. Q&A

The 30 min "Human Brains" Context: Females vs Males

Plenaria

(A. Gimelli, M. Westwood)



OCTOBER 15TH - Morning

CAD RISK EVALUATION: FROM "SIMPLICITY" TO "COMPLEXITY": Cells vs Humans

Presentation: **F. Recchia**

Key Note Lecture: **G. Camici**

New Horizons of Basic Research targeting Atherosclerotic Disease (P. Iozzo, F. Recchia)

1. MICE MODELS OF ATHEROSCLEROSIS (**C. Kusmic**)
2. ENDOTHELIAL CELLS DAMAGE/PROTECTION (**R. Madonna**)
3. MICRO-IMAGING AND MYOCARDIAL DAMAGE (**V. Lionetti**)
4. MICRO-IMAGING AND VASCULAR DAMAGE (**D. Panetta**)
5. Q&A

CAD RISK EVALUATION: FROM "COMPLEXITY" TO "SIMPLICITY": Numbers vs Clinics

Presentation: **A. Gimelli**

Key Note Lecture: **L. Shaw**

CAD Risk in the III Millennium: Keep it Real! (G. Casolo, G. Turchetti)

1. STILL A ROLE FOR PATHOPHYSIOLOGY IN THE AI ERA (**F. Crea**)
2. ONE CENT MORE FOR MY HEALTH (**R. Friebel**)
3. e-HEALTH CARE, REGULATORY and ETHIC ISSUES (**E. Caiani**)
4. "IMAGING" the FUTURE: the new challenges (**F. Bengel**)
5. Q&A

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

GENERAL INFORMATION

VENUE

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

ORGANIZING COMMITTEE

Filippo Cademartiri
Alessia Gimelli
Danilo Neglia

SCIENTIFIC COMMITTEE

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

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

CONGRESS REGISTRATION

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

REGISTER ON-LINE NOW



Registration fee: € 150,00

The registration fee includes:

- Admission to Scientific Sessions and Satellite Symposia
- Admission to the Industry Exhibition
- Coffee breaks and lunches
- Social Dinner on October 14th
- European CME credits if granted
- Certificate of attendance
- VAT 22%

PAYMENT

Bank transfer within 5 days from on-line registration.

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Do you need any help?

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

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