



Le fil rouge

The fil rouge of atherosclerosis: from brain to heart imaging

**CAGLIARI
HOTEL REGINA MARGHERITA
OCTOBER 17-18, 2019**

President and Chair
Luca Saba

Scientific Directors
**Luca Saba, Marco Francone
Max Wintermark, Ajay Gupta**

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of atherosclerosis:
from brain to heart imaging**

OCTOBER 17-18, 2019

Stanford
University



Weill Cornell
Medicine

Nowadays it is widely accepted that the rupture of the atherosclerotic plaque in coronary and carotid arteries plays a fundamental role in the development of acute myocardial infarctions or cerebrovascular events.

Atherosclerotic disease is the underlying process of the two most important causes of death worldwide: ischemic stroke and myocardial infarction. Atherosclerosis has a high prevalence in western countries with values up to 75% of men and 62% of women aged 65 years and older. Despite advances in treatment, available routinely used screening and diagnostic methods are insufficient to identify the victims before the event occurs even if in the last years the recognition of the role of the vulnerable plaque has opened new avenues of opportunity in the field of cardiovascular medicine.

In the last years, imaging techniques have explored, with a new level of detail, the atherosclerotic disease of the vessels by offering new evidences that some plaque characteristics are significantly associated to the risk of rupture and subsequent thrombosis or embolization. Moreover, the recent evidence of the anti-atherosclerotic effects determined by lipid-lowering and anti-inflammatory therapies poses a challenge for the choice of therapeutic approaches (best medical treatment – revascularization), maximized by the evidence that coronary and carotid atherosclerosis share common patterns but diverge for some important features. In this conference, we will discuss with worldwide class speakers from Europe and United States the similarities and differences between coronary and carotid artery plaque from the imaging point of view and the potential implications for systemic therapies according to the emerging evidences.

Our purpose is to present the more recent innovations in terms of early imaging of atherosclerosis and how to identify the best therapies for avoiding myocardial infarctions or cerebrovascular events.



Università di Cagliari



SAPIENZA
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L'aterosclerosi è il processo alla base delle due più importanti cause di morte a livello mondiale: l'ictus ischemico e l'infarto del miocardio. L'aterosclerosi ha un'alta prevalenza nei paesi occidentali con valori che raggiungono il 75% degli uomini e il 62% delle donne di età pari o superiore a 65 anni. Nonostante i progressi nel trattamento, i metodi di screening e diagnostici disponibili come routine sono attualmente insufficienti per identificare le vittime prima che l'evento si verifichi. Per l'identificazione della stratificazione del rischio fino si continua a considerare come parametro di riferimento il grado di stenosi carotidea sebbene negli ultimi anni il riconoscimento del ruolo della vulnerabilità della placca abbia aperto nuove opportunità nel campo della medicina preventiva cardiovascolare.

Negli ultimi anni, le tecniche di imaging hanno esplorato, con un nuovo livello di dettaglio, la malattia aterosclerotica offrendo forti evidenze di come alcune caratteristiche della placca siano significativamente associate al rischio di rottura e conseguente trombosi o embolizzazione distale. Inoltre, la recente evidenza degli effetti anti-aterosclerotici determinati dalle terapie ipolipemizzanti e antinfiammatorie pone una sfida per la scelta degli approcci terapeutici (miglior trattamento medico - rivascolarizzazione), massimizzata dall'evidenza che l'aterosclerosi coronarica e carotidea condividono modelli comuni sebbene divergano per alcune caratteristiche importanti. In questa conferenza discuteremo con i maggiori esperti al mondo, provenienti da Europa e Stati Uniti, Australia e Asia le somiglianze e le differenze tra la placca coronarica e carotidea dal punto di vista dell'imaging e le potenziali implicazioni per le terapie sistemiche secondo le emergenti evidenze.

Il nostro scopo è presentare le più recenti innovazioni in termini di imaging precoce dell'aterosclerosi e come identificare le migliori terapie per evitare infarti miocardici o eventi cerebrovascolari.

FACULTY

Anne Abbot, Melbourne
Nicoletta Anzalone, Milano
Pierpaolo Bassareo, Cagliari
Gavin Blake, Dublin
Alberto Boi, Cagliari
Christian Cadeddu, Cagliari
Filippo Cademartiri, Monselice
Paolo Camici, Milano
Alessandro Carriero, Novara
Gavino Casu, Nuoro
Carlo Catalano, Roma
Cesare Colosimo, Roma
Simone Comelli, Cagliari
Maurizio Conti, Sassari
Marco Corda, Cagliari
Maria Assunta Cova, Trieste
Giovanni De Fazio, Cagliari
Kevin De Marco, Michigan
Antonio Esposito, Milano
Gavino Faa, Cagliari
Andrea Falini, Milano
Marco Francone, Roma
Jonathan Gillard, Cambridge
Ajay Gupta, New York
Eline Kooi, Maastricht
Giuseppe Lanzino, Rochester - Minnesota

Tim Leiner, Maastricht
Christian Loewe, Vienne
Bruno Loi, Cagliari
Riccardo Marano, Roma
Stefano Marcia, Cagliari
Maurizio Melis, Cagliari
Luigi Meloni, Cagliari
Giuseppe Mercuro, Cagliari
Roberto Montisci, Cagliari
Alan Moody, Toronto
Roberto Sanfilippo, Cagliari
Gianluca Pontone, Milano
Maurizio Porcu, Cagliari
Francesco Prati, Roma
Stefano Profili, Sassari
Yang Qi, Beijing
Tobias Saam, Monaco
David Saloner, San Francisco
Luca Saba, Cagliari
Rodrigo Salgado, Antwerp
Paolo Siotto, Cagliari
Daniel Staub, Basel
Sara Seitun, Genova
Aad Van Der Lugt, Rotterdam
Bruce Allan Wasserman, Baltimore
Max Wintermark, Stanford

PROGRAM

OCTOBER 17TH, 2019

Intra and extracranial

- 08.00 Registration
- 08.45 Authorities
- 08.50 Welcome from the conference directors
Luca Saba, Marco Francone, Ajay Gupta, Max Wintermark
- 09.00 **SESSION 1 · Intra-cranial Imaging**
Max Wintermark, Maurizio Conti, Andrea Falini, Cesare Colosimo
- 09.00 Insights into Intracranial Vasculopathies Using Vessel Wall Imaging
Bruce A. Wasserman
- 09.30 Computed Tomography (with DECT and dose): is it possible to go beyond the lumen?
Aad Van Der Lugt
- 10.00 Magnetic Resonance (no functional imaging); intra-cranial plaque imaging
Nicoletta Anzalone
- 10.30 Round Table and Discussion: intracranial wall imaging: is possible at the current level of technology?
David Saloner, Bruce A. Wasserman, Tobias Saam, Kevin De Marco
- 10.15 Coffe break
- 11.00 **SESSION 2 · Extra-cranial Imaging**
Ajay Gupta, Alessandro Carriero, Maria Cova, Paolo Siotto, Stefano Marcia
- 11.00 Ultrasound: role and potentialities in carotid artery imaging
Daniel Staub
- 11.30 Computed Tomography (with DECT and dose) and plaque imaging: limits and potentialities
Ajay Gupta
- 12.00 Magnetic Resonance (no functional imaging): how to image the targets of plaque's Vulnerability
Tobias Saam
- 12.30 Nuclear Medicine and functional imaging: atherosclerosis analysis
Eline Kooi
- 12.20 Discussion
- 13.00 Stop Lunch

- 14.40 **SESSION 3 · Regression and plaque variation after pharmacological therapy (atherosclerosis monitoring) with imaging**
Nicoletta Anzalone, Cesare Colosimo, Daniel Staub, Tobias Saam
- 14.40 Monitoring with Ultrasound
Daniel Staub
- 15.00 Monitoring with Computed Tomography
Aad Van Der Lugt
- 15.20 Monitoring with Magnetic Resonance
Allan Moody
- 16.00 **Round Table**
Limits and potentialities in monitoring plaque regression and progression with imaging. Expert panel
Yang Qi, Allan Moody, Kevin De Marco, Roberto Montisci
- 16.20 Coffee break
- 16.45 **SESSION 4 · Imaging and therapies: guidelines and current insights. What is the correct therapeutical approach best medical treatment, interventional radiology, carotid endarterectomy?**
Giovanni De Fazio, Maurizio Melis, Simone Comelli, Allan Moody, Roberto Sanfilippo
- 16.40 Best Medical Treatment - current Guidelines and future options
Anne Abbott
- 17.00 Endovascular Therapy
Simone Comelli
- 17.20 Carotid Endarterectomy
Giuseppe Lanzino
- 17.40 **Round Table**
Guidelines, potentialities and information from imaging and advanced imaging. What is the right strategy ?
Cesare Colosimo, Maurizio Melis, Giuseppe Lanzino, Stefano Profili, Giovanni Defazio, Roberto Montisci, Jonathan Gillard
- 18.00 **Main Lecture Day 1:**
From NASCET to vulnerable plaque. The evolution of supra-aortic imaging
Jonathan Gillard
- 18.30 Stop
- 20.00 Dinner

OCTOBER 18TH, 2019

Coronary

- 08:30 **SESSION 5 · Coronary plaque assessment: imaging predicting histology**
Christian Cadeddu, Riccardo Marano, Bruno Loi, Alessandro Carriero
- 09.00 Coronary Atherosclerosis pathology revisited: what's new from clinical research?
Gavino Faa
- 09.30 Selective coronary angiography beyond vessel "luminography"
Gavin Blake
- 10.00 CT: non-invasive evaluation of coronary atherosclerosis "in vivo"
Christian Loewe
- 10:30 CT Perfusion and FFR: how far from effective invasive measurements?
Gianluca Pontone
- 11:00 **Round Table**
Marco Corda, Bruno Loi, Gavino Casu, Giuseppe Mercurio, Marco Francone
- 11:30 Coffee break
- 11.40 **SESSION 6 · From vulnerable plaque to vulnerable patient**
Giuseppe Mercurio, Sara Seitun, Maurizio Porcu, Carlo Catalano
- 11.40 Concept of "patient's vulnerability" in modern cardiology: what is relevant to know?
Paolo Camici
- 12.00 Lights and shadows of CT for vulnerable plaque imaging
Riccardo Marano
- 12.20 Imaging of acute chest pain: rationale use of non-invasive diagnostic tools
Tim Leiner
- 12.40 From diagnosis to prognosis: which imaging biomarker?
Antonio Esposito
- 13.00 **Round Table**
Stenosis, lesion load, vulnerability: which impact on patient's management
Pierpaolo Bassareo, Francesco Prati, Christian Loewe, Gavin Blake, Stefano Profili
- 13.30 Stop Lunch

- 14.40 **SESSION 7 · Imaging and therapies: guidelines and current insights.**
Luigi Meloni, Gianluca Pontone, Gavino Casu, Roberto Montisci
- 14.40 Coronary atherosclerosis progression: what is important to know
Pierpaolo Bassareo
- 15.00 Use of invasive imaging tools to guide therapy and monitor pharmacological response
Francesco Prati
- 15.20 Cardiac CT to monitor coronary plaque changes before and after therapy:
is there a rationale?
Riccardo Marano
- 15.40 Coronary calcium score: pros and cons
Sara Seitun
- 16.00 **Round Table**
Is there a future for imaging-based targeted therapy?
Alberto Boi, Marco Francone, Filippo Cademartiri, Paolo Camici
- 16.40 Best clinical poster (first, second and third) will be awarded (To be confirmed)
- 16.50 **Main Lecture Day 2**
Imaging of Coronary arteries: current trial and future prospectives
Rodrigo Salgado
- 17.15 Remarks – summary - final points and next meeting information (October 2021)
- 17.30 Stop

GENERAL INFORMATIONS

Registration Fee

Physicians: € 150,00 (VAT 22% included).

TSRM: € 80,00 (VAT 22% included)

The registration fee includes:

admission to all scientific sessions, access to sponsor exhibition area, a conference bag, a name badge, a certificate of attendance, simultaneous translation (Italian – English), Coffee break, Light Lunch.

ECM (only italian physicians)

Il corso è stato accreditato presso il Sistema ECM Nazionale per n. 100 partecipanti appartenenti alle seguenti categorie:

Medici Chirurghi appartenenti alle seguenti discipline

Anatomia Patologica - Anestesia e Rianimazione – Cardiochirurgia – Cardiologia

Chirurgia Generale - Ematologia – Medicina Interna – NeuroChirurgia - Neurologia – Oncologia

Radiodiagnostica – Radioterapia

Id evento: 4582-268711

Ore formative: 10

Crediti previsti: 10

Obiettivi Formativi: LINEE GUIDA - PROTOCOLLI - PROCEDURE

Responsabile Scientifico: Prof. Luca Saba

Payment

Payment can be made by bank transfer. Please note that all bank costs and money transfer costs must be prepaid by the registrant. Please, be sure to pay all fees charged from your bank. We must receive your wire transfer amount in full. Please, do not forget to ask your bank to include your name as the issuer (originator) of the transference.

Bank Transfer headed to: **Metasardinia srls**

Banca Intesa San Paolo, Cagliari

IBAN IT12V0306904856100000001196

BIC SWIFT CODE : BCITITMM

Please, send a copy of your bank transfer via e-mail to: r.loddo@metasardinia.it otherwise the payment cannot be registered. Cheques are not accepted.

Badge

Badge will be given upon registration. You are kindly required to wear your name badge during all sessions

Cancellation policy

Cancellations must be sent in writing to Metasardinia srls by 1st September 2019 in order to be refunded. The 70% of the amount. Cancellations received after this date will not be refunded. Refunds will be made after the closing of the course.

Programme modifications

The Scientific Secretariat and The Organizing Secretariat reserve the right to make any changes to the programme that will be deemed necessary for organizational and/or scientific reasons.

POSTER AND ORAL PRESENTATION SUBMISSION

Deadline September 15th

Communication of Abstract Acceptation September 15th

For detailed information: www.frathero.com

Submission

Participants interested in making an poster presentation are invited to submit an abstract.

To submit your abstracts you will need to send contact a word file to the following email: fratherosclerosis@gmail.com

Accepted abstracts will be invited for presentation in one of the following formats:

- as an oral presentation in a workshop session
- as a discussed poster in the poster exhibition
- as a poster presentation in the poster exhibition

All abstracts must be submitted and presented in clear English with accurate grammar and spelling of a quality suitable for publication.

Presentation at Congress

For each abstract, an author is expected to attend the congress and make the poster or oral presentation. Presenting authors must register by the registration deadline September 1st, 2019. Instructions for preparation of oral or poster presentations will be sent together with acceptance notifications.

Abstract title – Limited to 25 words / **Abstract text** – Limited to 250 words

All the accepted abstracts will be indexed by indexreference.org

Best Research Poster Presentation Awards

These awards recognize the scientific merit of poster presentations given at the conference

The top 10% of scores given by the Contributed Research Review Committee at the time of submission are considered for the award

A certificate with an inscription stating the award name, name of the presenting author, and title of the presentation shall be sent to the award recipient after the conference when the conditions of acceptance are met.

Official announcement of the recipients will occur after the conference via the website, and via email to conference attendees.



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Luca Saba

Scientific Directos
Marco Francone, Ajay Gupta
Luca Saba, Max Wintermark

Scientific committee
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Valeria Cherchi, Luigi Meloni, Giuseppe Mercuro,
Maurizio Porcu, Pierleone Lucatelli

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