



CardioLung 2017: Updates in Cardiovascular and Pulmonary Pathophysiology - V Edition

Program Coordinators: Prof. Carlo Palombo, Prof. Pierluigi Paggiaro, Prof. Mario Marzilli

<http://summerschool.cardiovascular.med.unipi.it/>

Up to 8 ECTS credits

Course A: 19th – 26th June

- Plenary lectures: 6ECTS

Course B: 27th – 30th June

- Internship: 2ECTS

Official Language: ENGLISH

Course format

Cardiolung 2017 includes a theoretical and a practical part. Plenary lectures will represent the core of the Course (Course A) which will be followed by a short intensive internship at the clinical units and diagnostic laboratories of the Cardiac and Pulmonary University Divisions (Course B, optional).

Key topics

- Cardiovascular and Pulmonary disease burden
- Molecular mechanisms in cardiopulmonary disease
- Ischemic heart disease: mechanisms and clinical
- Heart failure
- Vascular ageing
- Large artery structure and function
- Atherothrombosis and coagulation
- High blood pressure and diabetes
- Nutrition and cardiovascular risk
- Exercise and rehabilitation
- Brain-heart axis
- Biomedical engineering
- Cardiopulmonary response to extreme conditions
- Ethnic factors in cardiovascular disease
- Managing complexity and decisionmaking
- Perspectives in cardiovascular research
- Pathophysiology and therapy of COPD and asthma

Venue

- Historical Medical School, University of Pisa, &
- Cardiovascular and Thoracic Department, Cisanello University Hospital, via Paradisa, 2, Pisa

Target group

The summer school is targeted at national and international undergraduate, PhD and post-doc students in Medicine and Life Sciences, with a specific interest in the cardiovascular and pulmonary field.

Faculty

BACCI Elena, Università di Pisa
BARTALUCCI Alessia, Università di Pisa
BALESTRI Sabrina, Università di Pisa
BARBIERI Silvia S, Centro Cardiologico Monzino, IRCCS, Milano
BEGHE' Bianca, Università di Modena e Reggio Emilia, Modena
BRACALI Luca, www.lucabracali.it, Pistoia
CAPPELLINI Paola, Università di Pisa
CARAVELLI Paolo, Azienda Ospedaliero-Universitaria Pisana, Pisa
CARROZZI Laura, Università di Pisa
CELI Alessandro, Università di Pisa
CLINI Enrico M, Università di Modena e Reggio Emilia
CRUICKSHANK Kennedy J, King's College University, London, UK
DELL'ANNA Rita, Azienda Ospedaliero-Universitaria Pisana, Pisa
DELLE DONNE M. Grazia, Azienda Ospedaliero-Universitaria Pisana
DEL PRATO Stefano, Università di Pisa
DE ROSSI Danilo E, Centro Piaggio & Università di Pisa
DIBELLO Vitantonio, Università di Pisa
FABBRI Leonardo M, Università di Modena e Reggio Emilia, Modena
FERRETTI Guido, Università di Brescia & Université de Genève
FRASER Alan G, Wales College of Medicine, Cardiff, UK
FURLAN Raffaello, Humanitas University, Rozzano-Milano
GEMIGNANI Angelo, Università di Pisa
GHIADONI Lorenzo, Università di Pisa
GORINI Alessandra, Centro Cardiologico Monzino, IRCCS, Milano
GUARINI Giacinta, ASL 5 Volterra & Università di Pisa
IACONO Alfonso M, Università di Pisa
KOZAKOVA Michaela, Esaote SpA, Firenze
LATORRE Manuela, Nuovo Ospedale Apuano, Massa
LIONETTIVincenzo, Scuola Superiore S Anna, Pisa
MANCUSO Michelangelo, Azienda Ospedaliero-Universitaria Pisana
MARCELLONI Francesco, Università di Pisa
MARCUCCI Rossella, Università di Firenze
MARZILLI Mario, Università di Pisa
MORIZZO Carmela, Università di Pisa
MORRONE Doralisa, Università di Pisa
NATALE Gianfranco, Università di Pisa
NIERI Dario, Università di Pisa
NILSSON Peter M, Lund University, SE
ORETO Giuseppe, Università di Messina
ORSINI Enrico, Azienda Ospedaliero-Universitaria Pisana, Pisa
PAGGIARO Pier Luigi, Università di Pisa
PALOMBO Carlo, Università di Pisa
PARATI Gianfranco, Università Milano Bicocca, Milano-Monza
PASSINO Claudio, Scuola Superiore S Anna, Pisa
PEDRINELLI Roberto, Università di Pisa
PETRONIO Anna Sonia, Università di Pisa
PISTELLI Francesco, Azienda Ospedaliero-Universitaria Pisana, Pisa
PUCCI Angela, Azienda Ospedaliero-Universitaria Pisana, Pisa
QUINONES GALVAN Alfredo, Fondazione Toscana Gabriele Monasterio, Pisa
RATTAZZI Marcello, Università di Padova
SALIBA Marianna, Università di Pisa
SCILINGO Enzo P, Centro Piaggio, Università di Pisa
TADDEI Stefano, Università di Pisa
TREMOLI Elena, Centro Cardiologico Monzino, IRCCS & Università di Milan
VAGAGGINI Barbara, Azienda Ospedaliero-Universitaria Pisana, Pisa
VALENZA Gaetano, Università di Pisa
VIEGI Giovanni, Istituto di Biomedicina e di Immunologia Molecolare, CNR, Palermo
ZUCCHI Riccardo, Università di Pisa

Acknowledgements

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- The Flexx, Pistoia
- Microtest s.r.l., Lucca
- Sigma Ingegneria
- Sauro Additati Consulting s.r.l, Pistoia

Contact information

Applications and queries about the Course:

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UNIVERSITÀ DI PISA

SCHOOL of MEDICINE

**DEPARTMENT of SURGICAL, MEDICAL, MOLECULAR PATHOLOGY
& CRITICAL AREA MEDICINE**

UNIVERSITY of PISA SUMMER SCHOOL

**“CardioLung, UPDATES in CARDIOVASCULAR and PULMONARY
PATHOPHYSIOLOGY”**

5th Edition

June 19th – 26th, 2017

Pisa, Historical Medical School,

and Cardiac and Thoracic Department, University Hospital, Pisa-Cisanello

**FINAL PROGRAM
Course A – Medical School – Via Roma 55**

Time	June 19th, am	Course Presentation and Introduction
8.30 -9.30	Alessia BARTALUCCI, Carmela Morizzo & Carlo PALOMBO, Pisa	<i>Registration of participants</i>
9.30 -10.00	Francesco MARCELLONI, Pisa Mario MARZILLI, Pisa Pier Luigi PAGGIARO, Pisa	Vice Dean for International Affairs Chair of Cardiology Chair of Pulmonary Pathophysiology,
10.00-11.00	Mario MARZILLI, Pisa	Trends in cardiovascular disease
11.00-12.00	Pier Luigi PAGGIARO, Pisa	Personalized medicine in COPD
12.00-13.00	Riccardo ZUCCHI, Pisa	Myocardial preconditioning: biological and molecular mechanisms
13.00-13.30	Paola CAPPELLINI, Pisa	University of Pisa for International Students

Time	June 19th, pm	Molecular Pneumology
15.00 -16.00	Alessandro CELI, Pisa	Cell-derived microparticles: signaling between endothelium, coagulation and inflammation
16.00-17.00	Alessandro CELI, Pisa	Biomarkers in COPD
17.00 – 18.00	Elena BACCI, Pisa	Biomarkers in Asthma

Time	June 20th, am	Epidemiology and Clinical Aspects
8.30 -10.00	Giovanni VIEGI, Palermo	Epidemiology of chronic respiratory diseases and cardiovascular comorbidities
	BREAK	
10.15-11.15	Mario MARZILLI, Pisa	Rethinking ischemic heart disease: chronic ischemic syndromes
11:15-12:15	Mario MARZILLI, Pisa	Rethinking ischemic heart disease: acute ischemic syndromes
12.15 – 13.15	Giacinta GUARINI, Volterra-Pisa	Mitochondrial dysfunction in cardiac disease

Time	June 20th, pm	Exercise, Metabolism and Lifestyle
14.30 -15.15	Claudio PASSINO, Pisa	Principles of exercise physiology
15.15 -16.00	Claudio PASSINO, Pisa	Chemoreflexes in health and disease
	BREAK	
16.15-17.00	Laura CARROZZI & Francesco PISTELLI, Pisa	Smoking cessation in pulmonary and cardiovascular disease
17.00-18.00	Stefano DEL PRATO, Pisa	Diabetes and cardiovascular disease: treating hyperglycaemia equals treating diabetes ?
18.00-19.00	Alfredo QUINONES–GALVAN, Pisa	Nutrition and cardiovascular health

Time	June 21th, am	Vascular Ageing and Rehabilitation
09.00 -10.30	Peter M NILSSON, Lund, SE	Early vascular ageing (EVA) - a new concept to understand the association between ageing and cardiovascular disease
10.30-11.00	BREAK	
11.00-12.00	Enrico M CLINI, Modena e Reggio Emilia	Rehabilitation and physical exercise in COPD
12.00 -12.45	Enrico M CLINI Modena e Reggio Emilia	Effects of bronchodilation on physical exercise
12.45-13-15	Sabrina BALESTRI and Marianna SALIBA, Pisa	Introduction to the University Museum System

Time	June 21th, pm	Diagnostics: ECG and Large Arteries
14.30 -16.00	Giuseppe ORETO, Messina	ECG today
16.00-17.00	Carlo PALOMBO, Pisa	Arterial waveform analysis: from physiology to clinical applications
17.00 – 18.00	Carlo PALOMBO, Pisa	Ventricular – arterial coupling: principles and methods
18.00 – 18.30	Marco MEUCCI, Pistoia	"Well being and health promotion as a systemic target: which role for industry?"

Time	June 22th, am	Brain - Heart Axis (Session 1)
8.30 -10.00	Guido FERRETTI, Brescia - Genève	Autonomic modulation of cardiovascular responses in dynamic states
10.00-10.15	Break	
10.15-11.15	Enzo P. SCILINGO, Pisa	Exploring Brain-Heart Dynamics in Healthy and Pathological Conditions
11.15-12.00	Gaetano VALENZA, Pisa	Cardiorespiratory dynamics during multimodal emotional elicitation
12.00- 13.00	Angelo GEMIGNANI, Pisa	Insomnia and Cardiovascular Disease

Time	June 22th, pm	Atherothrombosis
14.30-15.15	Marcello RATTAZZI, Padova	Cardiovascular calcification phenomenon: pathophysiology and clinical implications
15.15-16.00	Anna S PETRONIO, Pisa	Aortic valve stenosis in the elderly
	BREAK	
16.15-17.00	Angela PUCCI, Pisa	The aortic disease spectrum: refining pathologic classification to improve clinical management
17.00 -18.00	Rossella MARCUCCI, Firenze	Platelets, coagulation and thrombosis in vascular disease

Time	June 23th, am	Global Cardiovascular Disease Burden
9.00 -9.45	Kennedy J CRUICKSHANK London, UK	Global cardiovascular disease burden: ethnicity, environment and genes
10.00-10.45	Kennedy J CRUICKSHANK London, UK	Tracking cardiovascular risk from early life, through adolescence to adults
10.45-11.15	BREAK	
		Cardiopulmonary Monitoring, Stroke
11.15-12.00	Danilo E DE ROSSI, Pisa	Wearable systems for monitoring cardiopulmonary system in daily life
12.00-13.00	Michelangelo MANCUSO, Pisa	Genetics of juvenile stroke

Time	June 23th, am	Cardiovascular Adaptation to Altitude
14.30 - 15.30	Gianfranco PARATI, Milano Bicocca	Cardiovascular effects of high altitude exposure: implications for clinical practice
15.30 -16.30	Vincenzo LIONETTI, Pisa	Heart Failure: Experimental and Clinical Exosomal cross-talk within myocardium as a potential target for cardioprotection
	BREAK	
16.45 - 17.45	Alan G FRASER, Cardiff, UK	Phenotyping heart failure
17.45 - 18.45	Luca BRACALI, Pistoia	Healthy Brain-Heart Axis at Work: Planetary Adventures of a Normal Man

Time	June 24th, am	Brain - Heart Axis II, and New Challenges
8.30 -9.30	Elena TREMOLI, Milano Centro Cardiologico Monzino	Perspectives in Cardiovascular Research: from genomics to precision medicine
9.30-10.30	Silvia S BARBIERI, Milano Centro Cardiologico Monzino Break	Brain and Cardiovascular Disease: Basic Research
10.45-11.45	Alessandra GORINI, Milano Centro Cardiologico Monzino	Depression as a risk factor for cardiovascular diseases
11.45-12.45	Alan G FRASER, Cardiff, UK	Managing complexity in medicine - evidence, bias, and clinical decision-making
12.45 - 13.45	Lorenzo GHIADONI, Pisa	Cardiovascular Disease in the Real Life: Focus on the Emergency Department

Time	June 25th, am*	Museo della Grafica, Palazzo Lanfranchi
10.30 -12.00	Gianfranco NATALE Pisa	Anatomia: Realtà e Rappresentazione Anatomy: Reality and Representation (Guided visit)

Time	June 26th, am	Targeting Cardiopulmonary System
8.30 -9.30	Leonardo M FABRI, Modena e Reggio Emilia	COPD as a systemic disease
9.30-10.15	Bianca BEGHE', Modena e Reggio Emilia BREAK	Therapeutic options for severe COPD
10.30-11.15	Pier Luigi PAGGIARO, Pisa	Severe Asthma: a New Challenge.
11.15 - 12.00	Manuela LATORRE, Pisa	Hypereosinophilic syndromes: which link with severe asthma ?
12.00 - 12.45	Doralisa MORRONE, Pisa	Principles of imaging in ischemic heart disease
12.45 - 13.15	Marco ROSSI, Pisa	Microcirculatory investigation in the 17th Century: the Lesson of Marcello Malpighi in Pisa

Time	June 26th, pm	Targeting Blood Pressure: Low & High
14.00 -15.00	Raffaello FURLAN Humanitas University, Milano	Orthostatic Intolerance: the role of the Autonomic Nervous System as a driving factor for pathophysiology and clinical aspects
15.00-16.00	Stefano TADDEI, Pisa	Clinical approach to the "accelerated" hypertension: not always the stronger (therapy) is the better
16.00 - 18.00	Carlo PALOMBO & Alessandro CELI, Pisa	Final test, and closing remarks

* Free, interested people will sign during the Course

Course B:

The Course B will be held at the Cardiovascular and Thoracic Department, Ospedale Cisanello, from June 27th to June 30th.

Applicants will be distributed in the wards and diagnostic laboratories of University Cardiology and Pneumology, from 9.00 am to 1.00 pm, under tutorship of staff physicians. A detailed program will be given during the Course A

Free entrance to the University Museums

- a) During the course students will have free entrance to the Botanic Garden of University, located in Via Roma in front of the Medical School, and on Saturday 24th and Sunday 25th to the other Museums of the University
- b) Further information about University Museums at <http://www.sma.unipi.it>

SUMMER SCHOOL

CARDIOLUNG: UPDATES IN CARDIOVASCULAR AND PULMONARY PATHOPHYSIOLOGY

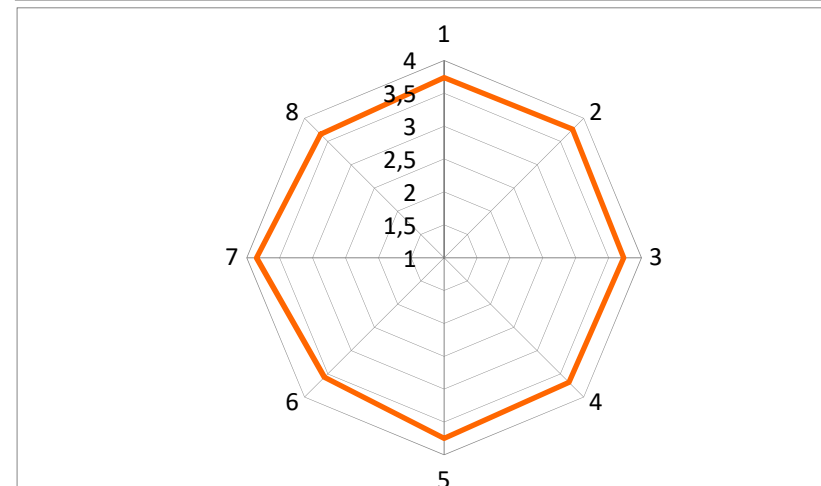
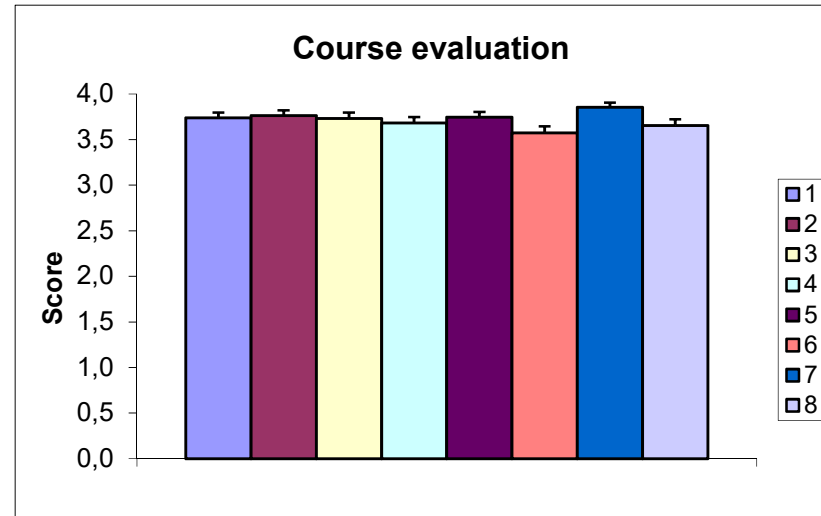
Pisa, 19-30 June 2017

Overall End-Course Evaluation

61 students responding out of 76 participants

Legend

1. Average level of teachers
2. Quality of the external faculty (Italian and EU)
3. Quality of the internal faculty (Pisa)
4. Interest for the content of the course
5. Organization (communication before the course, presence of teachers)
6. Perceived usefulness of the course for your learning track
7. Would you recommend to attend a similar course in 2018 year to your friends and colleagues?
8. Overall satisfaction score





CardioLung: Updates in Cardiovascular and Pulmonary Pathophysiology - IV Edition

Program Coordinators: Prof. Carlo Palombo, Prof. Pierluigi Paggiaro, Prof. Mario Marzilli

Program

Historical Medical School, Aula Massart, Via Roma 55, Pisa, and:

^Cardiac and Thoracic Department, University Hospital, Pisa-Cisanello, Building # 10, 2^ Floor, seminar room

June 20th

Course Presentation and Introduction

- 8.30 - 9.30 Registration of participants
- 9.30 - 10.00 Welcome address. *Mario MARZILLI, Pisa, Chair of Cardiology, Pierluigi PAGGIARO, Pisa, Chair of Pulmonary Pathophysiology, University of Pisa*
- 10.00 - 11.00 Trends in cardiovascular disease. *Mario MARZILLI, Pisa*
- 11.00 - 12.00 W.H.O. Global action plan 2013-2020 for the prevention and control of non-communicable diseases (NCDs): a holistic view. *Giovanni VIEGI, Palermo-Pisa*
- 12.00 - 13.00 Epidemiology of chronic respiratory diseases and cardiovascular comorbidities. *Giovanni VIEGI, Palermo-Pisa*
- 13.00 - 13.45 University of Pisa for International Students: where we are, where we are going to. *Paola CAPPELLINI, Pisa*
- 15.00 - 16.00 Refreshments, students self-presentaion, and details about the course
Moderated by *Carlo PALOMBO, Pisa*

Basic CardioVascular Pathophysiology

- 16.00 - 17.00 Coupling myocardial metabolism, perfusion and function. *Danilo NEGLIA, Pisa*
- 17.00 - 18.00 Cell-derived microparticles: signaling between endothelium, coagulation and inflammation. *Alessandro CELI, Pisa*

June 21th

Clinical Patterns in COPD and Ischemic Heart Disease

- 9.00 - 10.00 A network approach to the pathobiology of Chronic Obstructive Pulmonary Disease. *Alessandro CELI, Pisa*
- 10.00 - 11.00 Phenotyping Chronic Obstructive Pulmonary Disease: a New Perspective. *Pierluigi PAGGIARO, Pisa*
- 11.00 - 12.00 Rethinking ischemic heart disease: chronic ischemic syndromes. *Mario MARZILLI, Pisa*
- 12.00 - 13:00 Rethinking ischemic heart disease: acute ischemic syndromes. *Mario MARZILLI, Pisa*

Clinical Patterns in COPD

- 15.00 - 16.00 Elderly patients with COPD. *Raffaele ANTONELLI INCALZI, Roma*
- 16.00 - 17.00 Asthma-COPD overlap syndrome. *Pierluigi PAGGIARO, Pisa*

Basic CardioVascular Pathophysiology

- 17.00 - 18.00 Myocardial preconditioning: biological and molecular mechanisms. *Riccardo ZUCCHI, Pisa*

June 22th

Ageing and Cardiovascular Disease

- 8.30 - 10.30 Early vascular ageing (EVA) - a new concept to understand the association between ageing and cardiovascular disease. *Peter M NILSSON, Lund, SE*
- 10.30 - 11.30 Macro- and microvascular dysfunction. *Alda HUQI, Pisa*
- 11.30 - 12.30 Mitochondrial dysfunction in cardiac disease. *Giacinta GUARINI, Volterra-Pisa*

Lessons from a Rare Disease

- 14.30 - 15.30 Cardiac amyloidosis. *Claudio RAPEZZI, Bologna*

Vascular Pathophysiology for the Clinician

- 15.30 - 17.00 Large artery remodeling: integrating hemodynamic load, ageing and atherosclerotic disease. *Carlo PALOMBO, Pisa*
- 17.00 - 18.00 Endothelial dysfunction in atherothrombotic vascular disease. *Lorenzo GHIADONI, Pisa*
- 18.00 - 18.30 *Refreshments*

June 23th

(Not only) Heart Failure

- 8.30 - 9.30 Expanding knowledge in medicine and the impossibility of being expert. *Alan G FRASER, Cardiff, UK*
- 9.30 - 10.30 Heart Failure with preserved LV global systolic function: from research to clinical application. *Alan G FRASER, Cardiff, UK*
- 10.30 - 11.30 Heart Failure as a systemic disease. *Michele EMDIN, Pisa*
- 11.30 - 12.30 Dynamic interplay of nitric oxide, endothelins and angiotensin II in paracrine modulation of vascular function. *Vincenzo LIONETTI, Pisa*
- 12.30 - 13.00 *Break*

Heart Failure^

- 14.00 - 15.00 Assessing prognosis in heart failure with ultrasound. *Maria Chiara SCALI, Pisa*

Practical Sessions^

- 15.00 - 18.00 Pulmonary pathophysiology. *Alessandro CELI, Elena BACCI*

- 15.00 - 18.00 The cardiopulmonary exercise test. *Dario NIERI, Barbara VAGAGGINI*
 15.00 - 18.00 CV physiological imaging by US. *Carmela MORIZZO, Sara SBRAGI & Doralisa MORRONE*

June 24th

(Not only) Waves

- 8.30 - 9.30 Waves in arteries and wave intensity analysis: principles and methods. *Alun D HUGHES, London, UK*
 9.30 - 10.30 Wave intensity analysis in the clinical setting. *Alun D HUGHES, London, UK*
 10.30 - 11.30 The fallacy of preventive surgery in cardiovascular disease. *Roberto PEDRINELLI, Pisa*
 11.30 - 12.00 *Break*
 12.00 - 13.00 Matching left ventricular and large artery function, *Carlo PALOMBO, Pisa*
 The Heart in the Art
 13.00 - 13.45 Shaping the heart. *Dietrich GÖRTZ, Münster, DE*
 Students for Teaching and Research
 15.00 - 16.00 "E-Schoolapius: improving learning through clinical cases simulation". *Eleonora TADDEI, Filippo QUATTRONE, Marco M GERMANI, on behalf of Scuola Superiore S. Anna and University of Pisa (project coordinators: Prof Michele EMDIN, Prof Claudio PASSINO, and Prof Stefano TADDEI)*
 16.00 - 17.00 My Summer School: Free Presentations from Students. *VARIOUS*
 17.00 - 18.00 [Guided visit to the Anatomical Museum](#). *Gianfranco NATALE, Pisa*

June 27th

Cardiovascular Disease in Diabetes

- 8.30 - 9.30 Mechanisms of vascular damage in diabetes, *Raffaele DE CATERINA, Chieti*
 Chronic Obstructive Pulmonary Disease: an Integrative View
 9.30 - 10.30 Physical activity, disease progression and prognosis in COPD, *Benjamin WASCHKI, Grosshansdorf, DE*
 10.30 - 11.30 COPD and comorbidities. *Leonardo M FABBRI, Modena*
 11.30 - 12.00 *Break*
 12.00 - 13.00 Impact of COPD treatment on comorbidities. *Leonardo M FABBRI, Modena*
 Diabetes, Fat, and Cardiovascular Disease
 14.30 - 15.30 Diabetes and cardiovascular disease: What's the culprit? *Stefano DEL PRATO, Pisa*
 15.30 - 16.30 Vascular protection by managing hyperglycemia: are we approaching the goal? *Anna SOLINI, Pisa*
 16.30 - 17.30 Type 2 diabetes and non-alcoholic fatty liver disease: two sides of the same coin. *Amalia GASTALDELLI, Pisa*
 17.30 - 18.30 The liver, mirror of health. *Ferruccio BONINO, Pisa*

June 28th

Cardiopulmonary Adaptation to Extreme Conditions

- 8.15 - 9.15 Cardiovascular effects of high altitude exposure: implications for clinical practice. *Gianfranco PARATI, Milano Bicocca*
 Neuroautonomic Control and Lifestyle
 9.30 - 10.30 Sympathovagal balance and baroreflex sensitivity in cardiovascular regulation.

Massimo PAGANI, Milano

10.30 - 11.30 Functional syndromes and stress management. Daniela LUCINI, Milano

11.30 - 12.00 *Break*

12.00 - 13.00 Obesity, nutrition, and cardiovascular health. Alfredo QUINONES GALVAN, Pisa

Exercise Physiology and Rehabilitation

15.00 - 15.45 Chemoreflexes in health and disease. Claudio PASSINO, Pisa

15.45 - 16.30 Principles of exercise physiology. Claudio PASSINO, Pisa

16.30 - 17.30 Exercise in pulmonary rehabilitation. Barbara VAGAGGINI, Pisa

18.00 - 22.00 *Get together: guided tour at Museo della Grafica, and Dinner*

Venue: Palazzo Lanfranchi. Lungarno Galilei, 9

June 29th

Cardiovascular and Pulmonary Disease Burden in Perspective

9.00 - 10.00 Global cardiovascular disease burden: ethnicity, environment and genes.

Kennedy J CRUICKSHANK, London, UK

10.00 - 11.00 Is type 2 diabetes a vascular disease even before hyperglycaemia ?

Kennedy J CRUICKSHANK, London, UK

11.00 - 11.30 *Break*

11.00 - 12.00 Clinical approach to the "resistant" hypertension: not always the stronger (therapy) is the better. Stefano TADDEI, Pisa

12.00 - 13.00 Smoking addiction and cessation in pulmonary and cardiovascular disease.

Laura CARROZZI and Francesco PISTELLI, Pisa

Clinical Pharmacology and Bioengineering

14.30 - 15.30 Clinical Trials in Ischemic Heart Disease: Evidence and Pitfalls. Doralisa MORRONE, Pisa

15.30 - 16.30 Wearable systems for monitoring cardiopulmonary system in daily life. Danilo DE ROSSI, Pisa

16.30 - 17.30 Biological sensors in clinical practice. Roger FUOCO, Pisa

17.30 - 18.30 Cardiovascular simulation for training and clinical uses. Maria Giovanna TRIVELLA, Pisa-Milano

June 30th

Not Only Guidelines: from Brain to Mindlines

9.00 - 10.00 Insomnia and cardiovascular disorders. Angelo GEMIGNANI, Pisa

10.00 - 11.00 From Toyota production system to hospital organization. Fabrizio GEMMI, Pisa

11.00 - 12.00 From guidelines to personalized medicine: a challenge for the 21st century.

Gian Franco GENSINI, Florence

12.00 - 13.00 Motivation and responsibility for a personalized medicine: a new deal. Ferruccio BONINO, Pisa

13.00 - 14.00 *Break*

Final Evaluation Test and Farewell

14.00 - 16.00 Multiple choice questions written test. Carlo PALOMBO & Alessandro CELI, Pisa





UNIVERSITY of PISA SUMMER SCHOOL
“UPDATES in CARDIOVASCULAR PATHOPHYSIOLOGY”

3rd Edition



JOINT SUMMER SCHOOL PISA – ANGERS UNIVERSITIES
“VASCULAR PHYSIOLOGY and PATHOPHYSIOLOGY”

1st Edition



June 18th – 26th, 2015

*Pisa, Cardiac and Thoracic Department, University Hospital, Pisa-Cisanello
 Building # 10, 2nd Floor, Main Seminar Room*

FINAL PROGRAM

Time	June 18th, am	Welcome Address and Introduction to Cardiovascular Disease
8.30-9.00	Federica FULCERI and Carlo PALOMBO , Pisa	Participants reception
9.00 -9.30	Marco GUIDI, Pisa Corrado BLANDIZZI, Pisa Mario MARZILLI, Pisa	Welcome address from University of Pisa: Vice Dean for International Promotion Dean of the Medical School Chair of Cardiology
9.30-10.30	Mario MARZILLI, Pisa	Defining cardiovascular disease: a systemic disease with multiple clinical entities
10.30-11.15	Kennedy J CRUICKSHANK London, UK	The Global Cardiovascular disease burden: 1. Ethnicity versus genes
11.15-12.00	Kennedy J CRUICKSHANK London, UK	The Global Cardiovascular disease burden : 2. Is Type 2 diabetes ‘diabetes’ or a vascular disease pre-hyperglycaemia?’
12.00-12.30	Faculty	General interactive discussion

Time	June 18th, pm	Basic Mechanisms and Pathophysiology
14.00 -15.00	Stefano TADDEI, Pisa	Endothelial dysfunction in atherothrombotic vascular disease
15.00-16.00	Rossella MARCUCCI, Firenze	Platelet dysfunction in vascular disease
16.00-17.00	Anna Maria GORI, Firenze	Detecting and screening coagulation disorders
17.00-18.00	Alan G FRASER, Cardiff, UK	Heart failure with preserved LV global systolic function: assessment and treatment strategies

Time	June 19th, am	Pathophysiology
9.00 -10.00	Mario MARZILLI, Pisa	Cardiac disease: from vessels to mitochondria
10.00-11.00	Giacinta GUARINI, Volterra, PI	Macro- and microvascular coronary dysfunction
11.00-12.00	Carlo PALOMBO, Pisa	Arterial waves in health and disease
12.00-13.00	Francesco ORZI, Roma	Pathophysiology of cerebral circulation

Time	June 19th, pm	Atherothrombotic Cardiovascular Disease
14.30 -15.30	Giovanni ORLANDI, Pisa	Cerebrovascular atherosclerotic disease
15.30-16.15	Mario MARZILLI, Pisa	Rethinking ischemic heart disease: chronic ischemic syndromes
16.15-17.00	Mario MARZILLI, Pisa	Rethinking ischemic heart disease: acute ischemic syndromes
17.00-18.00	Michele EMDIN, Pisa	Left ventricular post-ischemic dysfunction

Time	June 22th, am	Angers Session: Hotspots in Peripheral Vascular Biology
9.00 -10.00	Julie FAVRE, Angers, FR*	Oestrogens and vascular function
10.00-11.00	Celine FASSOT, Angers, FR*	Epigenetics and peripheral vascular function
11.00-12.00	Laurent LOUFRANI, * Angers, FR	Immunity and peripheral vascular remodeling
12.00-13.00	Georges LEFTHERIOTIS,** Angers, FR	Arterial calcifications in acquired metabolic and genetic diseases
13.00-13.45	Georges LEFTHERIOTIS ** and Carlo PALOMBO	Angers – Pisa Interactive Discussion

* Teleconference from Angers

** Teleconference from Pisa

Time	June 22th, pm	Clinical Pathophysiology
15.00 -16.00	Alberto R DE CATERINA, Pisa	Myocardial ischemic preconditioning: from bench to bedside
16.00-18.00	Daniela GUARINO, Pisa Carmela MORIZZO, Pisa Carlo PALOMBO, Pisa	Hands-On-Session Advances in Vascular Investigation

Time	June 23th, am	From Risk Factors to CV Disease
9.00 -10.00	Stefano DEL PRATO, Pisa	Diabetes and cardiovascular disease: What's the culprit ?
10.00-11.00	Anna SOLINI, Pisa	Does glucose-lowering therapy improve vascular disease in diabetes?
11.00-12.00	Andrea NATALI, Pisa	Lipids and cardiovascular disease
12.00-13.00	Giulio MARCHESINI, Bologna	Nonalcoholic fatty liver disease (NAFLD): which relation with CV disease ?

Time	June 23th, pm	Obesity and Cardiovascular Disease
14.00 -15.00	Amalia GASTALDELLI, Pisa	Not all fats are created equal: adipose vs. ectopic fat, implication in cardiometabolic diseases
15.00-16.00	Vitantonio DI BELLO, Pisa	Obesity cardiomyopathy: fact or fiction ?
16.00-17.00	Giovanni FEDERICO, Pisa	Obesity in children and adolescents: pathophysiologic and clinical implications
17.00-18.00	Alfredo QUINONES GALVAN, Pisa	Principles of metabolism and nutrition for cardiovascular health

Time	June 24th, am	Vascular Ageing and Atherothrombotic Disease
9.00 -10.00	Peter NILSSON, Lund, SE	Ageing and cardiovascular disease
10.00-11.00	Pietro A MODESTI, Firenze	The Copernican revolution: from vulnerable plaque to vulnerable patient
11.00-12.00	Roberto PEDRINELLI, Pisa	Monoclonal antibodies in cardiovascular therapy
12.00-13.30	Carlo PALOMBO, Pisa	Tissue biomarkers of vascular ageing and preclinical cardiovascular disease

Time	June 24th, pm	Diagnosing Cardiovascular Disease
14.30 -16.00	Danilo NEGLIA, Pisa	Detection of significant coronary artery disease by noninvasive anatomical and functional imaging
16.00-17.00	Alessia GIMELLI, Pisa	Myocardium at risk: pathophysiologic meaning and clinical estimate
17.00-18.00	Carlo PALOMBO, Pisa	Ventricular-Arterial Coupling: principles and methods

Time	June 25th, am	Cardiovascular Adaptations to Stressful and Extreme Conditions
9.00 -10.00	Massimo PAGANI, Milano	Sympathovagal Balance and Baroreflex Sensitivity in Cardiovascular Regulation
10.00-11.00	Daniela LUCINI, Milano	Lifestyle interventions and stress management
11.00-12.00	Angelo GEMIGNANI, Pisa	Psychophysiologic patterns in brain-heart connections

Time	June 25th, pm	Genetic and Acquired Vascular Diseases
14.30 -15.30	Alessandro CELI, Pisa	Microparticles: signaling between endothelium, coagulation and inflammation
15.30-16.15	Alessandro PINI, Milano	Rare genetic cardiovascular diseases: transferring basic knowledge to the clinical field
16.15-17.00	Alessandro PINI, Milano	Marfan's syndrome: detection & management
17.00-18.00	Stefano BOMBARDIERI, Pisa	Inflammatory aortic diseases: a neglected cause of aortic rupture?

Time	June 26th, am	Cardiovascular System in Altitude & Focus on Antithrombotic drugs:
9.00 -10.00	Gianfranco PARATI, Milano	Cardiovascular effects of high altitude exposure: implications for clinical practice
10.00-11.00	Paolo PAULETTO, Padova	Novel oral anticoagulants in established and emerging indications
11.00-12.00	Raffaele DE CATERINA, Chieti	Perspectives in antithrombotic therapy
12.00-13.00	Carlo PATRONO, Roma	Aspirin: a never ending tale

Time	June 26th, pm	Closing session
14.00 -17.00	Carlo Palombo & Mario Marzilli, Pisa	Final evaluation test and closing remarks

Summer School

Updates in Cardiovascular Pathophysiology

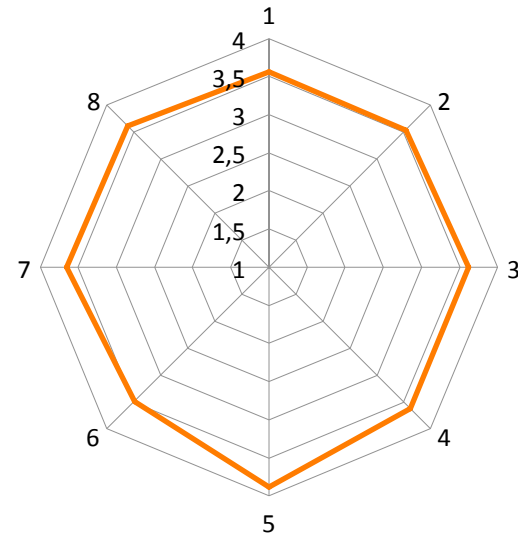
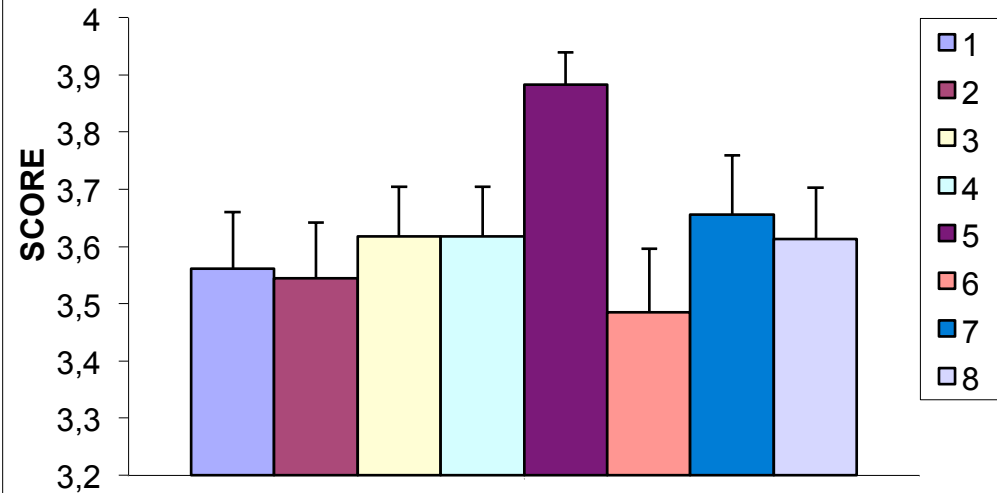
Pisa 18-26 june, 2015

Overall End-Course Evaluation
35 students responding
out of 40 participants

Legend

1. Average level of teachers
2. Quality of the external faculty (Italian and EU)
3. Quality of the internal faculty (Pisa)
4. Interest for the content of the course
5. Organization (communication before the course, presence of teachers)
6. Perceived usefulness of the course for your learning track
7. Would you recommend to attend a similar course in 2015 year to your friends and colleagues?
8. Overall satisfaction score:

Course evaluation





UNIVERSITÀ DI PISA

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Marco Guidi, Professor of Economics, and Vice Rector for Communication and International Promotion

Program Coordinators:

Mario Marzilli, MD, Professor of Cardiology

Carlo Palombo, MD, Associate Professor of Medicine

Technical Staff:

Francesca Pratali, Students applications

Federica Fulceri, Faculty and Logistics

Simone Cuppoletti, Webmaster

faculty

ANDREASSI Maria Grazia, Istituto di Fisiologia Clinica, CNR, Pisa

ANDREOTTI Felicità, Università Cattolica, Roma

BERNINI Giampaolo, Università di Pisa

BEVILACQUA Generoso, Università di Pisa

CELI Alessandro, Università di Pisa

COSENTINO Francesco, Karolinska Institutet, Stockholm

CRUICKSHANK John Kennedy, King's College, London

DE CATERINA Raffaele, Università di Chieti

DE CATERINA Alberto Ranieri, Fondazione Toscana Gabriele Monasterio, Massa

DISTANTE Alessandro, ISBEM, Brindisi

EMDIN Michele, Fondazione Toscana Gabriele Monasterio, Pisa

FEDERICO Giovanni, Università di Pisa

FERRARI Mauro, Università di Pisa

GALANTI Giorgio, Università di Firenze

GASTALDELLI Amalia, Istituto di Fisiologia Clinica, CNR, Pisa

GEMMI Fabrizio, Azienda Ospedaliero Universitaria Pisana

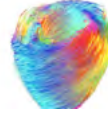
GENSINI Gianfranco, Università di Firenze

Summer School

"Updates in Cardiovascular Pathophysiology"

Pisa, 15th-26th September, 2014

University of Pisa Summer Schools - UPSS



The Heart in Europe....and More !

"Second edition of an up-to-date intensive course on "hot topics" in Cardiovascular Medicine and Pathophysiology, covering Epidemiology, Genetics, Molecular Biology, Risk Assessment and Prevention, Major Clinical Problems, Therapy, Lifestyle and Cardiovascular System, Outcome

Target

The Course is oriented to students in Medicine, as well as to PhD students and students of Schools of Specialization of the Medical and Cardiovascular Area from all EU and non EU countries. The Course is open also to post-doctoral researchers and senior researchers from Universities, Research Institutes, Hospitals

Format

Plenary lectures and interactive "journal club" workshops and small-group hands-on-session, for an overall number of 56 hours teaching. Up to 7 undergraduate credits will be acknowledged by the University of Pisa according to the European Credit Transfer System (ECTS), upon passing a final test covering the major topics of the course. The official language is English

Faculty

Teachers from the University of Pisa, Scuola Superiore S.Anna, National Research Council (CNR), Tuscan Foundation for Medical Research, and distinguished experts from other Italian and European Universities.

Registration

A registration fee of 150.00 Euro is requested as contribution to teaching material and traveling expenses for external Faculty.

-Students registrant by june 20th 2014 will benefit of a reduced fee of 100.00 Euro



GHIADONI Lorenzo, Università di Pisa

GUARINO Daniela, Azienda Ospedaliero
Universitaria Pisana

GUIDI Marco EL, Università di Pisa

IELLAMO Ferdinando,
Università Roma Tor Vergata

IERVASI Giorgio,
Istituto di Fisiologia Clinica, CNR, Pisa

LIONETTI Vincenzo,
Scuola Superiore S. Anna, Pisa

LUCINI Daniela, Istituto Humanitas
Università di Milano,

MARZILLI Mario, Università di Pisa

MODESTI Pietro Amedeo,
Università di Firenze

MORIZZO Carmela, Università di Pisa

MUIESAN Maria Lorenza,
Università di Brescia

NANNIPIERI Monica, Università di Pisa

NATALI Andrea, Università di Pisa

OLIVOTTO Jacopo, Università di Firenze

PAGANI Massimo,
Ospedale L Sacco Università di Milano

PALOMBO Carlo, Università di Pisa

PELLEGRINI Silvia, Università di Pisa

PINI Alessandro,
Ospedale L Sacco, Università di Milano

PISCITELLI Prisco, ISBEM, Brindisi

QUINONES GALVAN Alfredo, Fondazione
Toscana Gabriele Monasterio, Pisa

ROSSI Marco, Università di Pisa

ROVAI Daniele,
Istituto di Fisiologia Clinica, CNR, Pisa

SCHILLACI Giuseppe, Università di Perugia

TADDEI Stefano, Università di Pisa

VIRDIS Agostino, Università di Pisa

VOLPE Massimo,
Università Roma La Sapienza

ZUCCHI Riccardo,
Università di Pisa

Pisa, Historical School of Medicine, Via Roma, 55



How-to register

- On-line Pre-registration will be open from May 5th to July 20th
Please send the [application form](#) and a Curriculum Vitae as e-mail attachment to this e-mail address: francesca.pratali@unipi.it
A maximum of 80 participants will be selected on the basis of their CV and application date
- Applicants admitted will be informed via e-mail and their list published on-line by July 28th.
- In order to complete registration, the registration fee must be paid no later than August 18th by Bank Transfer

Acknowledgments

This Summer School was made possible by an ad hoc fund of the Italian Ministry of University and Research (MIUR), and by unrestricted grants from:

- Esaote SpA, Genova Hitachi – Aloka, Assago (MI)



UNIVERSITÀ DI PISA



Contact information

francesca.pratali@unipi.it for Pre-registration

federica.fulceri@unipi.it for credit transfer system, speakers,
general affairs and FAQs

support.summerschool@adm.unipi.it for registration and
information about accommodation

carlo.palombo@unipi.it for specific questions from applicants

Web-site: <http://summerschool.cardiovascular.med.unipi.it/>



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Mario Marzilli, MD, Professor of Cardiology

Carlo Palombo, MD, Associate Professor of Medicine

Summer School

"Advances in Cardiovascular Medicine"

June 19th - July 5th



University of Pisa Summer School - UPSS

Objectives

to provide an up-to-date intensive course on "hot topics" in cardiovascular medicine, covering Epidemiology, Risk assessment and Prevention, Major clinical problems, Imaging, Therapy, Lifestyle and Cardiovascular System, Cardiovascular adaptation to extreme conditions.

preliminary program

- 1 Cardiovascular genetics
- 2 Cardiovascular epidemiology
- 3 Metabolic diseases and cardiovascular system
- 4 Cardiovascular biology
- 5 Atherosclerotic vascular diseases

Target

the Course is oriented preferentially to students in Medicine, as well as to PhD students and students of Schools of Specialization of the Medical and Cardiovascular Area from all EU countries.
The Course is open also to post-doctoral researchers and senior researchers from Universities, research institutes, clinics.

Format

the Course will be structured in 15 thematic units , with 8 hours of lectures per day, from Monday to Friday, starting june 19th and ending july 5th.

Faculty

Teachers from the University of Pisa and other Italian Universities, National Research Council (CNR), Scuola Superiore S.Anna, Tuscan Foundation for Medical Research.

PISA



6

Hot spots on ischemic heart disease and heart failure

7

Cardiovascular functional imaging

8

Cardiomyopathies

9

Hypertension and hypertrophy

10

Focus in thrombosis and antithrombotic therapy

11

Pulmonary vascular disease and the heart

12

Cutting edges on arrhythmias

13

Heart-brain interaction

14

Cardiovascular adaptation to extreme conditions

15

Lifestyle and cardiovascular system

*Pisa,
Historical School of Medicine,
Via Roma, 67*



Registration fees

A registration fee* from 300 up to 500 € will be required, as contribution to teaching material and traveling expenses for external Faculty. (*200€ as fixed registration fee, plus 100€ for each week of attendance).

One hundred bursaries of 400 € each will be assigned to the first 50 students from foreign Universities and to the first 50 students from Italian Universities

Post-doctoral researchers and senior researchers will be asked a full registration fee.

How-to register

On-line registration will be open from march 4th to may 24th mailing to : support.summerschool@adm.unipi.it

Registration fee can be paid (soon after receiving confirmation from University of Pisa about the attribution of the bursary) by Bank Transfer to the following account:

IBAN IT18F0503414011000003030719

FROM ABROAD, PLEASE ADD SWIFT CODE: BAPPIT22

Registrations will be valid after receiving confirmation of payment at the support.summerschool@adm.unipi.it

Contact informations

summerschool@med.unipi.it for speakers and general affairs

support.summerschool@adm.unipi.it for registration, accomodation and credit transfer system

carlo.palombo@med.unipi.it for very specific questions from applicants

General Affairs Management:

Claudia Cimino
Alessandra Marchetti
Phone +39 050 221 1825

International Affairs Management:

Claudia Abbandoni

Communication Management:

Antonio D'Agnelli

Artworks and Media Management:

Alessio Sbrana

Web-site: <http://summerschool.med.unipi.it>



UNIVERSITÀ DI PISA

School of Medicine

Summer School

“Advances in Cardiovascular Medicine”

University of Pisa Summer School - UPSS

Time	June 19th	ATHEROSCLEROSIS AND THROMBOSIS
9.00-10.00	Marco GUIDI, Riccardo ZUCCHI, Mario MARZILLI	Welcome address
10.00-11.00	Raffaele DE CATERINA	Molecular biology of atherosclerosis
11.00-12.00	Raffaele DE CATERINA	New antithrombin drugs: mechanisms of actions and clinical indications
12.00-13.00	Monica NANNIPIERI	Epidemiology and Pathophysiology of Obesity: Relationships with Cardiovascular Risk
14.00-15.00	Fabio MONZANI	Thyroid and the heart: new views for an old tale
15.00-16.00	Fabio MONZANI	The peculiar condition of thyroid-associated cardiovascular risk in the elderly
16.00-17.00	Carlo PALOMBO	“Primordial” versus primary prevention

Time	June 20th	ISCHEMIC HEART DISEASE AND VASCULAR AGEING
9.00-10.00	Mario MARZILLI	Acute coronary syndromes
10.00-11.00	Mario MARZILLI	Coronary microvascular dysfunction: pathophysiology and clinical implications
11.00-13.00	Attilio MASERI	The Lessons of my 50 years of clinical research
14.00-15.00	Rita MARIOTTI	Epidemiology of ischemic heart disease
15.00-16.00	Anna Sonia PETRONIO	New technologies for the ageing patient
16.00-17.00	Carlo PALOMBO	Tissue biomarkers and CV risk stratification
17.00- 18.00	Angelo SCUTERI	Vascular ageing and brain: reappraisal of an old theme

Time	June 21st	CARDIOVASCULAR RISK, IMAGING, SIGNALING
9.00-11.00	Angelo SCUTERI	The Sardinia study: a model of cardiovascular genetics on the field
11.00-12.00	Roberto PEDRINELLI	Target organ damage in arterial hypertension: marker and mechanism of disease
12.00-13.00	Anna Paola ERBA	Assessing adrenergic myocardial innervation

15.00-16.00	Alessia GIMELLI	Assessing myocardial function and perfusion by SPECT
16.00-17.00	Claudio PASSINO	The chemoreflex in heart failure
17.00-18.00	Danilo NEGLIA	Positron emission tomography (PET) between research and clinical application

Time	June 24th	HOT SPOTS IN CARDIOVASCULAR BIOLOGY
9.00-11.00	Silvia PELLEGRINI	The genoma project and its implications for the physician of the 21 st century
11.00-12.00	Pierre ABRAHAM	Buttock claudication from symptoms to treatment choices
12.00-13.00	Vincenzo LIONETTI	Stem cells in cardiovascular diseases: from reality to dream
14.00-15.00	Aldo PAOLICCHI	Gamma-glutamyltransferase, a biomarker at the crossroad between liver, cardiovascular and metabolic disease
15.00-16.00	Rossella DI STEFANO	Vascular biology techniques for the clinician
16.00-17.00	Riccardo ZUCCHI	Myocardial preconditioning: biological and molecular mechanisms
17.00-18.00	Francesco FORFORI	Preconditioning phenomenon: from pathophysiology to clinical implications

Time	June 25th	ATHEROSCLEROTIC VASCULAR DISEASE
9.00-11.00	Clara CARPEGGIANI	Genetics of ischemic heart disease in the field
11.00-12.00	Mauro FERRARI	Abdominal aortic aneurysm: state of the art
12.00-13.00	Alberto BALBARINI	Multidistrictual atherosclerotic vascular disease: one disease or multiple diseases?
14.00-16.00	Giovanni ORLANDI	Stroke: epidemiology, clinical assessment, therapy and preventive strategies
16.00-17.00	Massimo PAGANI	Assessing sympathovagal balance and baroreflex sensitivity: from children to spaceflight is now
17.00- 18.00	Massimo PAGANI	Lifestyle and stress evaluation and management

Time	June 26th	ESTABLISHED AND EMERGING ISSUES IN CLINICAL AND EXPERIMENTAL CARDIOLOGY (I)
9.00-11.00	Giovanni DE SIMONE	Left ventricular remodeling and hypertrophy in hypertension: pathophysiology, prognosis and treatment
11.00-13.00	Paolo PAULETTO	Culprits and bystanders in atheroma, restenosis and calcification
14.00-15.00	Giovanni FEDERICO	Obesity in children and adolescents
15.00-16.00	Giovanni FEDERICO	Optimize control in type 1 diabetes
16.00-17.00	Marco	Ankle-brachial index: a new deal for an old measure

	ROSSI	
17.00- 18.00	Carlo PALOMBO	Ventricular – arterial coupling: principles and methods

Time	June 27th	ADVANCED CARDIAC IMAGING AND GENETIC DISEASES
9.00-10.00	Alan G FRASER	Marfan's syndrome: update 2013 and perspectives for treatment
10.00-11.00	Alan G FRASER	Critical use of imaging and medical devices in cardiovascular medicine
11.00-12.00	Vitantonio DI BELLO	Advanced cardiac ultrasound: integrated backscatter
12.00-13.00	Vitantonio DI BELLO	Advanced cardiac ultrasound: 3D echocardiography, useful tool or toy ?
14.00-16.00	Iacopo OLIVOTTO	Hypertrophic cardiomyopathies: laboratory investigation and clinical management
16.00-17.00	Paolo MARRACCINI	Coronary arteries and LV function and perfusion by CT scan: basic principles and clinical indications
17.00- 18.00	Massimo LOMBARDI	Cardiac magnetic resonance: the essential

Time	June 28th	ESTABLISHED AND EMERGING ISSUES IN CLINICAL AND EXPERIMENTAL CARDIOLOGY (II)
9.00-11.00	Alun D HUGHES	Wave separation analysis in the arterial tree: from physiology to clinical application
11.00-12.00	Monica NANNIPIERI	Treating Obesity to Prevent Diabetes and Cardiovascular Complications
12.00-13.00	Emiliano RICCIARDI	The physiology and clinical assesement of platelet function and hemostasis
14.00-15.00	Anna SOLINI	Cardiorenal syndrome
15.00-16.00	Anna SOLINI	Fibroblasts cultures in cardiovascular medicine
16.00-17.00	Andrea NATALI	Diabetes and atherosclerotic vascular disease
17.00- 18.00	Andrea NATALI	Clinical approach to dyslipidemias

Time	July 1st	CLINICAL AND EXPERIMENTAL CARDIOLOGY: AGEING, HEART FAILURE, MICROGRAVITY
9.00-11.00	Peter NILSSON	Telomere length, ageing and cardiovascular risk - an update 2013
11.00-12.00	Michele EMDIN	Heart failure as an integrative disease
12.00-13.00	George LEFTHERIOTIS	Arterial calcifications in acquired metabolic and genetic diseases
14.00-15.00	Enrico	Small arteries remodeling: pathophysiologic and clinical

	AGABITI ROSEI	implications
15.00-16.00	Maria Lorenza MUIESAN	Pulsatile hemodynamics and microcirculation
16.00-17.00	Carlo CAPELLI	Cardiopulmonary adaptation to microgravity
17.00-18.00	Danilo NEGLIA	Dilated cardiomyopathies: epidemiology, diagnosis and therapy

Time	July 2nd	HEMODYNAMIC AND METABOLIC STRESSES TO THE HEART: PULMONARY HYPERTENSION, ARTERIAL HYPERTENSION, DIABETES, EXPOSURE TO ALTITUDE
9.00-10.00	Gianfranco PARATI	Blood pressure variability: measurements and clinical meaning
10.00-11.00	Gianfranco PARATI	Cardiovascular and neuroautonomic adaptation to altitude
11.00-13.00	Stefano DEL PRATO	Prediabetes, Diabetes and Cardiovascular Disease
14.00-16.00	Giuseppe MANCIA	Epidemiology and treatment of arterial hypertension: lessons from the XX century and perspectives for the XXI century
16.00-17.00	Antonio PALLA	Recurrent pulmonary embolism
17.00-18.00	Antonio PALLA	Pulmonary hypertension and cardiovascular system

Time	July 3rd	HEART AND FAT
9.00-11.00	Marcello PIACENTI	Pacemaker therapy and resynchronization
11.00-13.00	Amalia GASTALDELLI	Non alcoholic liver disease, visceral fat and cardiovascular risk
14.00-16.00	Michele BRIGNOLE	Evaluation and management of the patient with syncope
16.00-17.00	Maria Grazia BONGIORNI	Current indications and appropriateness for interventional treatment of arrhythmias and ICD
17.00-18.00	Carlo PALOMBO	Assessing hemorheology and flow-wall interactions: the time is now

Time	July 4th	NEW HORIZONS: Technology, Lifestyle and Mind
9.00-10.30	Claudio BUSSADORI	Myocardial tissue velocity imaging: principles and clinical applications
10.30-12.00	Peter	Advances in cardiovascular ultrasound: an Horizon 2020 perspective

	BRANDS	
12.00-13.00	Arno SCHMIDT- TRUCKSAESS	Lifestyle and cardiovascular system (Part 1)
14.00-15.00	Arno SCHMIDT- TRUCKSAESS	Lifestyle and cardiovascular system (Part 2)
15.00-16.30	Giorgio GALANTI	Sport and cardiovascular system in elite athletes
16.30-18.00	Pietro PIETRINI	Functional imaging of brain: perspectives for reassessing the brain-heart interactions

Time	July 5th	NEW HORIZONS: Sport, Stress, Space
9.00-10.00	Marco ROSSI	Assessing peripheral microcirculation: pathophysiologic and clinical aspects
10.00-12.00	Stefano TADDEI	The critical issue of resistant hypertension: pathophysiologic and clinical aspects
12.00-13.00	Mario MARZILLI, Riccardo ZUCCHI, Marco GUIDI	Closing Remarks
14.00-16.00	Carlo PALOMBO Mario MARZILLI	Final test (Multiple choice questionnaire)