

# **University of Pisa Summer School**

Pisa, June 20th - June 30th 2016



# **CardioLung**: Updates in Cardiovascular and Pulmonary Pathophysiology - IV Edition

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

# Program

Pisa, Historical Medical School, and Cardiac and Thoracic Department, University Hospital, Pisa-Cisanello

#### June 20th

Course Presentation and Introduction	
8.30 - 9.30 Registration of participants	
9.30 - 10.30 Welcome address. Corrado BLANDIZZI, Pisa, School of Medicine Dean, 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 WHO Global action plan 2013-2020 for the prevention and control of non-commun	icable
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 - 13.30 University of Pisa for International Students: where we are, where we are going to.	
Paola CAPPELLINI, Pisa	
Translational Lecture	
15.00 - 16.00 Functional imaging of brain: new perspectives for investigating the brain-heart axis	i.
Pietro PIETRINI, Lucca-Pisa	
Basic Vascular Pathophysiology	
16.00 - 17.00 Cell-derived microparticles: signaling between endothelium, coagulation and inflar	nmation.
Alessandro CELI, Pisa	
17.00 - 18.00 Macro- and microvascular dysfunction. Alda HUQI, 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 12.00 - 13:00	Rethinking ischemic heart disease: chronic ischemic syndromes. <i>Mario MARZILLI, Pisa</i> Rethinking ischemic heart disease: acute ischemic syndromes. <i>Mario MARZILLI, Pisa</i>
	Coronary and Myocardial Pathophysiology
15.00 - 16.00 16.00 - 17.00 17.00 - 18.00	Myocardial preconditioning: biological and molecular mechanisms. <i>Riccardo ZUCCHI, Pisa</i> Mitochondrial dysfunction in cardiac disease. <i>Giacinta GUARINI, Volterra-Pisa</i> Coupling myocardial metabolism, perfusion and function. <i>Danilo NEGLIA, Pisa</i>
June 22th	
	Ageing and Cardiovascular and Pulmonary 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	Asthma-COPD overlap syndrome. Pierluigi PAGGIARO, Pisa
11.30 - 12.30	Elderly patients with COPD Rare Cardiovascular Diseases. Raffaele ANTONELLI INCALZI, Roma
	Lessons from a Rare Disease
14.30 - 15.30	Cardiac amiloydosis. 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
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. {\it Vincenzo LIONETTI, Pisa}
	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 10.30 - 11.30 11.30 - 12.30	Wave intensity analysis in the clinical setting. Alun D HUGHES, London, UK The fallacy of preventive surgery in cardiovascular disease. Roberto PEDRINELLI, Pisa Matching left ventricular and large artery function, Carlo PALOMBO, Pisa
	Students for Teaching
12.45 - 13.30	"E-Schoolapius: improving learning through clinical cases simulation". <i>Eleonora TADDEl, Filippo QUATTRONE, Marco M GERMANI, on behalf of Scuola Superiore S. Anna and University of Pisa</i>
	The Heart in the Art
15.00 - 16.00	Shaping the heart. Dietrich GÖRTZ, Münster, DE
	"My Summer School: Free Presentations from Students"
16.00 - 18.00	VARIOUS
June 27th	
	Cardiovascular Disease in Diabetes
9.00 - 10.00 10.00 - 11.00	Mechanisms of vascular damage in diabetes, <i>Raffaele DE CATERINA, Chieti</i> Physical activity, disease progression and prognosis in COPD, <i>Benjamin WATZ, Grosshansdorf, DE</i>
11.00 - 12.00	COPD and comorbidities. Leonardo M FABBRI, Modena
12.00 - 13.00	Impact of COPD treatment on comorbidities. Leonardo M FABBRI, Modena
	Diabetes, Fat, and Cardiovascular Disease
14.30 - 15.30 15.30 - 16.30	Diabetes and cardiovascular disease: What's the culprit? Stefano DEL PRATO, Pisa 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	
	Neuroautonomic Control, Exercise, and Lifestyle
9.00 - 10.00	Sympathovagal balance and baroreflex sensitivity in cardiovascular regulation.  Massimo PAGANI, Milano
10.00 - 11.00	Functional syndromes and stress management. Daniela LUCINI, Milano
11.00 - 12.00 12.00 - 13.00	Chemoreflexes in health and disease. Claudio PASSINO, Pisa Principles of exercise physiology. Claudio PASSINO, Pisa
.2.00 15.00	Obesity, Exercise and Lifestyle
15.00 - 16.00	Obesity, nutrition, and cardiovascular health. Alfredo QUINONES GALVAN, Pisa

16.00 - 17.00 Exercise in pulmonary rehabilitation. Barbara VAGAGGINI, Pisa

17.00 - 18.00 Smoking addiciton and cessation in pulmonary and cardiovascular disease. Laura CARROZZI and Francesco PISTELLI, Pisa

## June 29th

	Cardiovascular 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 - 12.00	Clinical approach to the "accelerated" hypertension: not always the stronger (therapy) is the better. Stefano TADDEI, Pisa
	Cardiopulmonary Adaptation to Extreme Conditions
12.00 - 13.00	Cardiovascular effects of high altitude exposure: implications for clinical practice. Gianfranco PARATI, Milano
	Clinical Pharmacology and Bioengineering
14.30 - 15.30 15.30 - 16.30 16.30 - 17.30 17.30 - 18.30	Clinical Trials in Ischemic Heart Disease: Evidence and Pitfalls. <i>Doralisa MORRONE, Pisa</i> Wearable systems for monitoring cardiopulmonary system in daily life. <i>Danilo DE ROSSI, Pisa</i> Biological sensors in clinical practice. <i>Roger FUOCO, Pisa</i> Cardiovascular simulation for training and clinical uses. <i>Maria Giovanna TRIVELLA, Pisa-Milano</i>
lune 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
	Final Evaluation Test and Farewell
14.30 - 16.00	Multiple choice questions written test, Carlo PALOMBO & Alessandro CELL, Pisa

