



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

<b>Time</b>	<b>June 24th</b>	<b>HOT SPOTS IN CARDIOVASCULAR BIOLOGY</b>
9.00-11.00	Silvia PELLEGRINI	The genoma project and its implications for the physician of the 21 <sup>st</sup> century
11.00-12.00	Pierre ABRAHAM	<b>Buttock claudication from symptoms to treatment choices</b>
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

<b>Time</b>	<b>June 25th</b>	<b>ATHEROSCLEROTIC VASCULAR DISEASE</b>
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

<b>Time</b>	<b>June 26th</b>	<b>ESTABLISHED AND EMERGING ISSUES IN CLINICAL AND EXPERIMENTAL CARDIOLOGY (I)</b>
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

<b>Time</b>	<b>June 27th</b>	<b>ADVANCED CARDIAC IMAGING AND GENETIC DISEASES</b>
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

<b>Time</b>	<b>June 28th</b>	<b>ESTABLISHED AND EMERGING ISSUES IN CLINICAL AND EXPERIMENTAL CARDIOLOGY (II)</b>
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 assesment 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

<b>Time</b>	<b>July 1st</b>	<b>CLINICAL AND EXPERIMENTAL CARDIOLOGY: AGEING, HEART FAILURE, MICROGRAVITY</b>
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

<b>Time</b>	<b>July 2nd</b>	<b>HEMODYNAMIC AND METABOLIC STRESSES TO THE HEART: PULMONARY HYPERTENSION, ARTERIAL HYPERTENSION, DIABETES, EXPOSURE TO ALTITUDE</b>
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

<b>Time</b>	<b>July 3rd</b>	<b>HEART AND FAT</b>
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

<b>Time</b>	<b>July 4th</b>	<b>NEW HORIZONS: Technology, Lifestyle and Mind</b>
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

	<b>BRANDS</b>	
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

<b>Time</b>	<b>July 5th</b>	<b>NEW HORIZONS: Sport, Stress, Space</b>
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)