

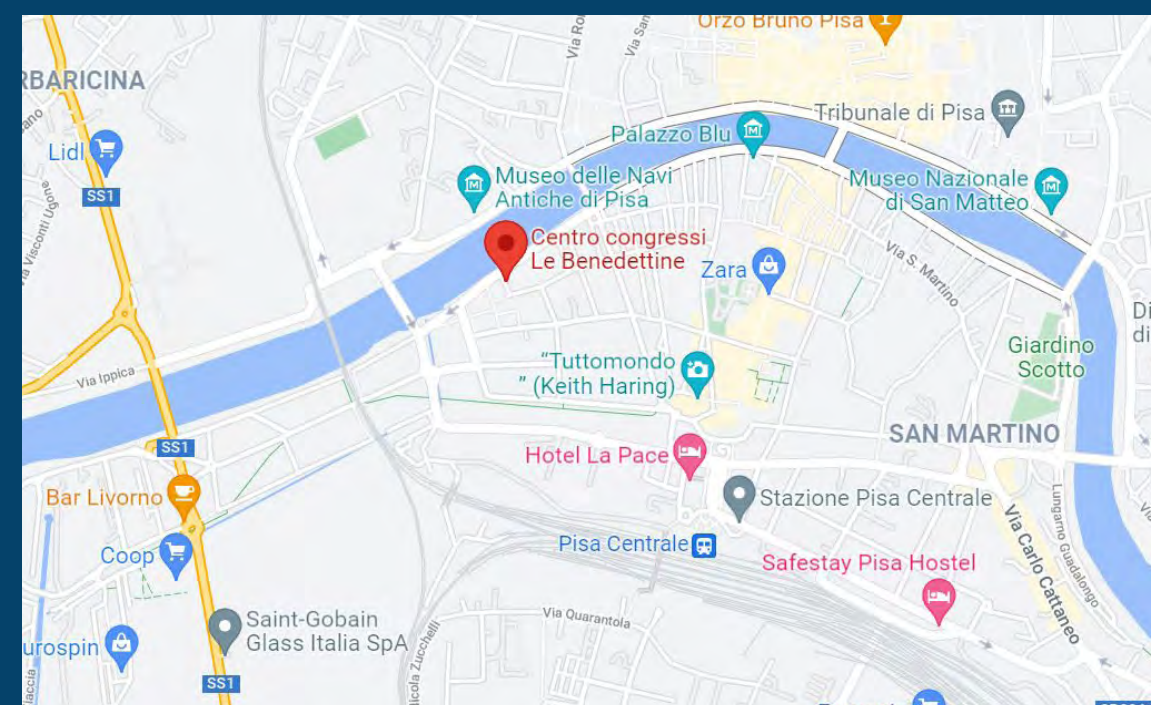
# University of Pisa, School of Medicine

Department of Surgical, Medical, Molecular Pathology and Critical Care Medicine

"Cardiovascular Summer School:  
Clinical and Experimental", VIII edition  
Pisa July 4<sup>th</sup> - July 9<sup>th</sup> 2022

## Venue

PISA  
POLO CONGRESSUALE LE BENEDETTINE  
PIAZZA S. PAOLO A RIPA D'ARNO, 16



3 ECTS credits  
Official Language: ENGLISH  
45 participants maximum  
(selection according to CV and application date)

## Course Format

Lectures in hybrid format (in presence and remotely), with interactive discussions and debates

## Registration fee

Regular fee: 500 €, including participation to the Course, course material and gadgets, course media repository, free University wifi, reduced price canteen card, free cards for public transportation in Pisa (either bus or bike), free access to the University of Pisa Museums ([www.sma.unipi.it](http://www.sma.unipi.it)), and University insurance.

Reduced fee: 250 €  
reduced registration fee of 250 € will apply to applicants sending registration form by March 18th, and fee payment no later than May 31th, 2022

## How to apply:

go to: <https://www.unipi.it/index.php/how-to-apply>  
or <http://summerschool.cardiovascular.med.unipi.it>  
and click on: Registration, and follow instructions

## Main Topics

### Introduction to Cardiovascular Disease

Global Burden of CV disease and its changing over the last decade  
Pathophysiology of systemic and pulmonary circulation  
Learning about cardiovascular disease: future directions

### Ischemic heart disease

Atherothrombotic vascular disease  
Acute and Chronic Ischemic Syndromes  
Acute Coronary Syndromes  
Microvascular disease

### Cardiometabolic diseases

Mechanisms regulating metabolic and cardiovascular functions  
Definition and classification of cardiometabolic diseases  
Cardiometabolic diseases in specific conditions

### Cardiomyopathies

Hypertensive heart disease  
Hypertrophic and Dilated cardiomyopathy  
Right Ventricular Arrhythmogenic dysplasia

### Arrhythmic disorders

Mechanisms of arrhythmias and conduction disorders  
Emergency in cardiac rhythm abnormalities: how to manage if you are not yet a cardiologist  
Perspectives in electrophysiology and interventional therapies  
Sudden cardiac death

### Heart Failure

Principles and methods of ventricular-arterial coupling  
Classification and pathophysiology of heart failure  
Pathophysiology of anti-neoplastic drug-induced heart failure  
Heart failure in patients with cancer

### Pulmonary hypertension: from pathophysiology to treatment

Definition, classification, pathophysiology and treatment

### Vascular and aortic syndrome diseases

#### Advanced imaging

Ultrasound and stress echocardiography,  
Angio-TC, cardiac magnetic resonance,  
PET in cardiovascular diseases  
Imaging in acute intensive care and POCUS

### Antithrombotic and anticoagulant drugs: state of the art

Pathophysiology of atherothrombosis and antithrombotic agents

### Physical exercise

Physiology and clinical impact of physical exercise  
Cardiovascular adaptation to extreme conditions  
Exercise prescription for primary and secondary prevention  
Cardiopulmonary test in heart failure and pulmonary hypertension

### Stress and cardiovascular disease

Pathophysiology of stress, and investigation of susceptibility to stress in clinical practice

Functional syndromes including tako-tsubo syndrome

### Planning and publishing your research

Learning about practical, ethical and theoretical aspects in the planning, organization and management of clinical trials  
Understanding the experimental design and statistical analysis and how to write a manuscript



EXPLORE THIS SUMMER  
EXPLORE YOUR FUTURE



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

Course Directors: Prof. Raffaele De Caterina & Prof. Carlo Palombo  
Chair of Cardiology, University of Pisa

Lecturers from the Pisa University System and other National and European Research and Academic Institutions

Contacts @: [www.unipi.it](http://www.unipi.it)

for information about the Course and registrations

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for administrative issues

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