



# CardioLung: Updates in Cardiovascular and Pulmonary Pathophysiology - VI Edition

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

## Lectures Program

**Course A, June 18<sup>th</sup> – June 25<sup>th</sup>: Historical Medical School, Aula Massart, Via Roma 55, Pisa**

### June 18<sup>th</sup>

- 8.30 - 9.30 Registration of participants. *Valentina BESSI, Pisa, Carmela MORIZZO, Pisa, Carlo PALOMBO, Pisa*
- 9.30 - 10.00 International promotion, *Francesco MARCELLONI, Pisa*  
Summer School in the Department activity, *Riccardo ZUCCHI, Pisa*  
Introduction to the course, *Pierluigi PAGGIARO, Pisa*
- 10.00 - 11.00 Managing complexity in medicine: evidence, bias, and clinical decision-making.  
*Alan FRASER, Cardiff, UK*
- 11.00 - 12.00 Vascular physiology and atherosclerosis. *Georges LEFTHERIOTIS, Nice, FR*
- 12.00- 13.00 Critical approach to scientific papers. *Mario MARZILLI, Pisa*
- 14.30 - 15.00 The Pisa University Museum System. *Chiara BODEI, Pisa*
- 15.00 - 16.00 New data on world-wide epidemiology of asthma & COPD. *Giovanni VIEGI, Palermo*
- 16.00 - 17.00 Systolic and diastolic heart failure. *Alan FRASER, Cardiff, UK*
- 17.00 - 18.00 Asthma and comorbidities. *Manuela LATORRE, Pisa-Massa*

### June 19<sup>th</sup>

- 9.00 - 10.00 From clinical to biological approach to asthma and COPD, *Pierluigi PAGGIARO, Pisa*
- 10.00 - 11.00 Personalized medicine in asthma. *Pierluigi PAGGIARO, Pisa*
- 11.00 - 12.00 Acute coronary syndromes: pathologic substrates and culprits. *Doralisa MORRONE, Pisa*
- 12.00 - 13.00 Coronary pathophysiology. *Mario MARZILLI, Pisa*
- 13.00 - 13.30 The University of Pisa for international students. *Paola CAPPELLINI, Pisa*

- 14.30 - 15.30 Principles of exercise physiology. *Claudio PASSINO, Pisa*
- 15.30 – 16.30 From PADGEM protein to inclacumab: the importance of curiosity-driven research. *Alessandro CELI, Pisa*
- 16.30 - 17.30 ITALUNG: Epidemiology and screening of lung cancer. *Laura CARROZZI, Pisa*
- 17.30 - 18.30 The link between cancer incidence and economic development, with a special focus on lung cancer. *Tommaso LUZZATI, Pisa*

## June 20th

- 9.00 - 10.00 Large arteries structure and function. *Carlo PALOMBO, Pisa*
- 10.00 - 11.00 Ventricular – arterial coupling. *Carlo PALOMBO, Pisa*
- 11.00 - 12.00 Hypertrophic cardiomyopathy. *Iacopo OLIVOTTO, Firenze*
- 12.00 - 13.00 Sudden cardiac death in the young. *Alessandro ZORZI, Padova*
- 14.30- 15.30 Myocardial metabolism and preconditioning. *Riccardo ZUCCHI, Pisa*
- 15.30 - 16.30 Microparticles: more than platelet dust. *Tommaso NERI, Pisa*
- 16.30 - 17.30 Nanostring technology: bringing genetics to the clinical field. *Rossella BRUNO, Pisa*
- 17.30- 18.30 Mitochondrial dysfunction in cardiac disease. *Giacinta GUARINI, Pisa*

## June 21th

- 9.00 - 10.00 Functional evaluation and risk stratification in heart failure patients. *Piergiuseppe AGOSTONI, Milano*
- 10.00 - 11.00 OSAS as a systemic disease. *Gianfranco PARATI, Milano*
- 11.00 - 12.30 Early vascular ageing: risk factors, molecular mechanisms, and implications for cardiovascular disease. *Peter NILSSON, Lund-Malmoe, SE*
- 12.30 - 13.30 Principle of nutrition for cardiovascular health. *Alfredo QUINONES GALVAN, Pisa*
- 14.30 - 15.30 Respiratory system in men during diving to the maximal depth in the chamber. *Alexander SUVOROV, Moscow, RU*
- 15.30 - 16.30 Cardiorespiratory system adaptation to medium-term isolation conditions: Insights from the SIRIUS 18/19 program. *Alexander SUVOROV, Moscow, RU*
- 16.30 - 17.30 Diet and cardiovascular disease: low-calories, vegetarian vs Mediterranean. *Rossella MARCUCCI and Francesco SOFI, Firenze*
- 17.30 - 18.30 Influence of risk factors and their interactions on the likelihood of cardiovascular disease in patients with metabolic syndrome. *Dmitriy OLEJNIK, Odessa, UA*

## June 22th

- 9.00 - 10.00 Integration of cardiovascular and pulmonary functions by central nervous system *Diego MANZONI, Pisa*
- 10.00 - 11.00 Assessing sympathovagal balance in the clinical setting *Carlo PALOMBO and Gaetano VALENZA, Pisa*
- 11.00 - 12.00 Heart - brain axis: interoception and interoception awareness. *Enrica SANTARCANGELO and Laura SEBASTIANI, Pisa*
- 12.00 - 13.00 Sleep and cardiovascular disorders. *Angelo GEMIGNANI, Pisa*
- 14.30 - 15.30 Global cardiovascular disease burden: ethnicity, environment and genes. *Kennedy J CRUICKSHANK, London, UK*
- 15.30 - 16.30 Tracking cardiovascular risk from early life, through adolescence to adults *Kennedy J CRUICKSHANK, London, UK*

- 16.30 - 17.30 In vitro models of cardiovascular and pulmonary tissue. *Arti AHLUWALIA, Pisa*
- 17.30-18.30 Wearable systems for monitoring cardiopulmonary system in daily life. *Danilo DE ROSSI, Pisa*

## June 23th

- 9.00 - 10.30 Perspectives in cardiovascular medicine: translating basic research into the clinical field: the Monzino model. *Elena TREMOLI, Milano*
- 10.30 - 11.30 Personalized medicine in COPD. *Dario NIERI, Pisa-Firenze*
- 11.30 - 12.30 New perspectives in lung cancer therapy. *Jacopo PETRINI, Pisa*

## June 25th

- 8.30 - 9.30 Bronchiectasis: clinical and functional assessment. *Federico DENTE, Pisa*
- 9.30 - 10.30 Genetics of severe asthma. *Bianca BEGHE', Modena*
- 10.30 - 11.30 Multimorbidities in COPD: are they relevant for COPD management? *Leonardo FABBRI, Modena*
- 11.30 - 12.30 The illusion of treatment. *Mario MARZILLI, Pisa*
- 15.00 - 16.00 Bronchiectasis: a new field of investigation. *Eva POLVERINO, Barcelona*
- 16.00 - 17.00 Asthma endotyping: potential consequences on asthma management. *Renaud LOUIS, Liège*
- 17.00 - 18.00 Final test and closing remarks. *Carlo PALOMBO & Alessandro CELI, Pisa*

### Course B:

The Course B will be held at the Cardiac and Thoracic Department, University Hospital, Pisa-Cisanello, Building # 10, (meeting point at the 2<sup>nd</sup> Floor, seminar room), from June 26th to June 29th. 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

- 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 to the other Museums of the University
- Further information about University Museums at <http://www.sma.unipi.it>

