



SCIENTIFIC PROGRAM – July 6<sup>th</sup>  
Aula Magna, Scuola Superiore Sant'Anna

09:00 OPENING LECTURE

**Prof. UGO BOGGI**  
**UNIVERSITY OF PISA**  
"Robotic surgery"

MOLECULAR RESEARCH

**10:00 OLGA PYANKOVA:** "Study of the effect of gravitational loading variations on human capillary endothelial cells"

**10:15 NITYANAND BHARAT BOLSHETTE:** "Oncogenic-remodeling of circadian clock machinery"

**10:30 ALESSIO FERRARI:** " Chronoquine: a novel anticancer agent"

**10:45 SARA PERUZZI:** "Structural insight into PNKD function"

**11:00 FEDERICA VANNINI:** "Identification of Circulating Low Molecular Weight Endothelium-Protective Factors"

**11:15 GABRIELE BERTI:** "Additional effects of PCSK9 on molecular processes underlying atherosclerosis beyond the effects on circulating LDL-cholesterol"

## PRE-CLINICAL RESEARCH

### I – FROM MOLECULES TO TOOLS

- 11:30 MARIANNA COLASUONNO:** “Synthesis and characterization of tPA-Nanoparticles for treating thrombosis”
- 11:45 CECILIA PUCCI:** “Developing zebrafish models of human *SETD5* loss of function-dependent intellectual disability and autism”
- 12:00 CHIARA DE CESARI:** “Retinitis pigmentosa: an innovative approach to improve photoreceptor transplant efficiency”
- 12:15 NICOLE DI LASCIO:** “Characterization of carotid plaque vulnerability in mice by means of high-frequency ultrasound imaging”
- 12:30 ALESSANDRO BOCCADIFUOCO:** “Hemodynamic simulation of a patient specific ascending thoracic aortic aneurysm and validation against Magnetic Resonance Imaging measurements”
- 12:45 DANYAR Sh. GILMANOV:** “Role of exosomes derived from human mesenchymal stem cells in preventing the activation of monocytes/macrophages by biological valve tissue”

13:00 – BREAK

### II – FROM CARDIAC INJURY TO REPAIR

- 14:00 CHRYSANTOS GRYGORATOS:** “Cardiac remodeling in models of anthracycline-induced cardiomyopathy”
- 14:15 LUIGI PASTORMERLO:** “Renal sympathetic denervation for cardioprotection after myocardial infarction: a preclinical study”
- 14:30 NIKOLOZ GORGODZE:** “Pro-regenerative microRNAs Carried by Liposomal Vectors in Experimental Myocardial Infarction”

**14:45 FAUSTO PIZZINO:** “Role of microRNA and of cardiac magnetic resonance in the evaluation of left ventricular remodeling secondary to primary mitral regurgitation: the EMIGRATE study”

## CLINICAL RESEARCH

### I – TREATMENTS AND OUTCOME

**15:00 ROSETTA RAGUSA:** “VAD and recovery of natural heart: the role of inflammation and new markers”

**15:15 GIANLUCA MIRIZZI:** “Modulation of Central Chemoreceptors in Systolic Heart Failure”

**15:30 FRANCESCA MENICHETTI:** "Correlation between ventricular arrhythmias substrate and cardiac Perfusion/Innervation mismatch detected by nuclear imaging: clinical impact on ablation"

**15:45 DANIELA GUARINO:** "Effects of pre-surgery diet on glucose metabolism in severely obese individuals undergoing bariatric surgery: high-protein vs Mediterranean diet"

**16:00 HAKIM KARIM CHABANE:** “Beneficial effects of a complementary diet with cereal  $\beta$ -glucans on anterior myocardial infarction patients treated by primary PCI- “Cuore Sano” Protocol”

### II – INNOVATIONS IN PATIENT MANAGEMENT

**16:15 SARA SAMONI:** "Ultrasound and Color-Doppler in the assessment of Renal Functional Reserve"

**16:30 PIETRO BAJONA:** "Ischemic Mitral Regurgitation: the Quest for Mitral Valve Repair Prognostic Factors”

**16:45 GIOVANNI BENEDETTI:** “Smart home for the elderly : Design of a well-being evaluator and of a simplified warning scoring system”

**17:00 ALESSANDRO VALLEGGI:** "Reappraisal and remodeling of in-hospital care of end-of-life in heart failure: towards a patient-centered approach"

**17:15 FRANCESCA GUARNERI:** "Patients with complex needs: new perspective of evaluation"

17:30 - BREAK

## JOINT SESSION WITH SCUOLA NORMALE SUPERIORE

### FROM CARDIOSCIENCE TO NEUROSCIENCE

**17:45 JACOPO AGRIMI:** "Nutraceutical Approach to Prevent Work Stress-induced Brain-Heart Axis Dysfunctions linked to Cardiovascular Disease Risk: A Translational Study"

**18:00 ZEESHAN HAMID SHAH:** "A Deep, Combined Omics Exploration of The FAAH Knockout Brain Lipidome"

**18:15 FRANCESCO GOBBO (SNS):** "Mapping of activated synapses in the hippocampus after context exploration with a new optogenetic reporter for spine potentiation"

**18:30 ALICE ACCORRONI:** "3-iodothyronamine effect on long-term potentiation: rescuing  $\beta$ -amyloid-induced synaptic dysfunction"

**18:45 GRAZIA RUTIGLIANO:** "The role of thyroid hormone and associated metabolite pathways in neuropsychiatry and metabolism"

**19:00 MARIA TERESA MAZZETTO (SNS):** "Multi-omics analysis of brain aging"

**19:15 VIVIANA MARCHI:** "Kinematic and electrophysiological characterization of spontaneous motor activity in young infants: new frontiers on early biomarkers of neurodevelopmental disorders"

**19:30 DEBORA NAPOLI (SNS): "Epigenetic mechanisms in brain plasticity"**

**19:45 CONCLUDING REMARKS**

**Faculty of the PhD in Translational Medicine**

**Prof. Fabio A Recchia – Coordinator (ISV-SSSUP)**  
**Prof. Michele Emdin – Deputy Coordinator (ISV-SSSUP)**  
**Prof. Vincenzo Lionetti – (ISV-SSSUP)**  
**Prof. Claudio Passino – (ISV-SSSUP)**  
**Prof. Mario Enrico Pè – (Chairman of Experimental Class, ISV-SSSUP)**  
**Prof. Aldo Clerico – (ISV-SSSUP/ Fondazione CNR Toscana G. Monasterio)**  
**Prof. Flavio Coceani – (ISV-SSSUP)**  
**Prof. Alfred Cuschieri – (ISV-SSSUP/University of Dundee, UK)**  
**Prof. Sabina Nuti – (Laboratory MeS, IM-SSSUP)**  
**Prof. Angelo Reggiani – (Italian Institute of Technology, Genoa)**  
**Dr. Debora Angeloni – (ISV-SSSUP)**  
**Dr. Mario Meola – (ISV-SSSUP)**  
**Dr. Andrea Zuccolo – (ISV-SSSUP)**  
**Dr. Benedetto Grimaldi - (Italian Institute of Technology, Genoa)**  
**Dr. Giorgio Iervasi – (Director, Institute of Clinical Physiology - CNR)**  
**Dr. Danilo Neglia – (Fondazione Toscana “G. Monasterio”)**  
**All. Francesca Guarneri - Delegate *Allievi Perfezionandi* (ISV-SSSUP)**  
**Dr. Laura Bevacqua – Administrative Office**

Organizing Committee: Prof. Vincenzo Lionetti, All. Francesca Guarneri, Dr. Laura Bevacqua.