CONGRESSO
SPCCTV
4D VISIONS 19

PROGRAM
TRANSLATIONAL MEDICAL SCIENCE

23&24 SATURDAY AND SUNDAY
SATURDAY NOVEMBER 09:30/11:00  
1ST SESSION  
«BIRDS OF A FEATHER FLOCK TOGETHER» CROSSTALK BETWEEN CARDIOMYOCYTES AND NON-CARDIOMYOCYTES  
Chairpersons  
PERPETUA PINTO DO Ó | INEB, Porto  
INÊS FALCÃO PIRES | FMUP, Porto

1. THE ROLE OF EXOSOMES IN THE CROSSTALK BETWEEN CARDIOMYOCYTES AND NON-CARDIOMYOCYTES  
HENRIQUE GIRÃO | FMUC, Coimbra

2. INTERACTIONS BETWEEN CARDIOMYOCYTES, FIBROBLASTS, AND EXTRACELLULAR MATRIX  
DIANA NASCIMENTO | INEB, Porto

3. MYOCARDIAL ENDOTHELIAL MICROVASCULATURE: THE ROLE OF ENDOTHELIAL CELLS IN CARDIAC REGULATION  
LINO FERREIRA

4. EPICARDIAL ADIPOSE TISSUE: FRIEND OR FOE?  
NUNO BETTENCOURT | FMUP, Porto

11:00/11:30 COFFEE BREAK

11:30/13:00 2ND SESSION  
BASIC AND TRANSLATIONAL CARDIOVASCULAR RESEARCH: USEFUL TOOLS FOR CLINICIANS AND DEMYSTIFICATION OF THE LAB WORK  
Chairpersons  
DANIEL GONÇALVES | FADEUP, Porto  
JOSÉ BRAGANÇA | Universidade Algarve, CBMR, Faro

5. ORAL COMMUNICATIONS  
5. CITED2 FUNCTION, STATE OF THE HEART

6. EXTRACELLULAR-MATRIX FUNCTIONALIZATION OF HUMAN IPSC-BASED CARDIAC TISSUES IMPROVES CARDIOMYOCYTE MATURATION

7. GENERATION AND FUNCTIONAL CHARACTERIZATION OF CARDIOMYOCYTES DERIVED FROM A SET OF ISOGENIC, GENE-EDITED HUMAN IPS CELL LINES DERIVED FROM A CERL2/DAND5 PATIENT FOR CARDIAC DISEASE MODELLING

13:00/14:30 LUNCH WITH THE EXPERTS

3. TRANSLATIONAL RESEARCH FROM A SURGEON PERSPECTIVE  
RUI CERQUEIRA | CHUSJ, Porto

4. HOW MUCH CAN BE RECOVERED IN MYOCARDIAL REVERSE REMODELING: A GOOD EXAMPLE OF TRANSLATIONAL RESEARCH  
CRISTINA GAVINA | Cardiology, FMUP, Porto
14:30/16:00
3RD SESSION: OMICS STUDIES IN CARDIOVASCULAR DISEASE (NETDIAMOND)

Chairpersons
RUI VITORINO | Universidade Aveiro
ARTUR SILVA | Universidade Aveiro

1. WHAT CAN AN OMICS SPECIALIST UNRAVEL TO A CARDIOLOGIST?
FRANCISCO AMADO | Universidade Aveiro

2. OMICS IN HFpEF
JOSÉ BELO | Universidade Nova de Lisboa

3. PROTEOMICS/METABOLICOMICS IN HFpEF
PAULA ALVES | iBET, Lisboa

4. PIPELINES AND FRAMEWORKS IN OMICS ANALYSIS
ANTÓNIO BARROS | FMUP, Porto
RITA FERREIRA | FMUP, Porto

17:00/18:00
SHORT COMMUNICATION
TRANSLATIONAL MEDICAL SCIENCE

Chairpersons
ANTÓNIO BARROS | FMUP, Porto
DANIEL GONÇALVES | FADEUP, Porto
INÉS FALCÃO PIRES | FMUP, Porto
CARMEN BRÁS SILVA | FMUP, Porto
JOSÉ BRAGANÇA | Universidade Algarve, CBMR, Faro

1. A COMPUTATIONAL PIPELINE FOR MULTIPLE COHORT ANALYSIS

2. MERGING MICROARRAY STUDIES TO IDENTIFY A COMMON GENE EXPRESSION SIGNATURE IN HEART DISEASE

3. UNRAVELING THE EFFECT OF EXERCISE TRAINING IN THE SKELETAL MUSCLE/ADIPOSE TISSUE AXIS IN EXPERIMENTAL HEART FAILURE WITH PRESERVED EJECTION FRACTION

4. A COLLABORATIVE DATA REPOSITORY FOR COHORT MANAGEMENT

5. THE IMPACT OF CHRONIC SILDENAFIL SUPPLEMENTATION IN EXPERIMENTAL HEART FAILURE WITH PRESERVED EJECTION FRACTION

6. MODERATE ALCOHOL CONSUMPTION PROMOTES REMODELING OF THE RIGHT VENTRICLE AND PULMONARY ARTERY IN WISTAR RATS

7. DATA-FUSION AND MULTIVARIATE ANALYSIS OF MICROARRAY DATA FOR THE UNTARGETED IDENTIFICATION OF A GLOBAL AND MULTI-ETIOLOGICAL HF SIGNATURE

8. \( \beta \)-3 ADRENOCEPTORS: A THERAPEUTIC TARGET FOR PULMONARY ARTERIAL HYPERTENSION

9. THE AFRICAN SPINY MOUSE AS A MODEL FOR HEART REGENERATION

10. INFLAMMATORY INFLTRATE DRIVES MYOCARDIAL INJURY IN HUMAN SEPTIC CARDIOMYOPATHY
**SUNDAY NOVEMBER 24, 2019**

**PROGRAM: TRANSLATIONAL MEDICAL SCIENCE**

### ORAL COMMUNICATIONS

3. **MICRORNA-146A ROLE IN THE PATHOPHYSIOLOGY OF PULMONARY ARTERIAL HYPERTENSION**

4. **FUNCTIONAL ANALYSIS OF TWO NOVEL TBX5 MUTATIONS PRESENT IN HOLT-ORAM SYNDROME PATIENTS WITH DIFFERENT CLINICAL MANIFESTATIONS**

### SPECIAL SESSION: KEYNOTE LECTURE

**«HYPERTROPHIC CARDIOMYOPATHY: THE GENETICS BEHIND A SURGICAL CHALLENGE»**

**Keynote Speaker**

**LUCIE CARRIER** | University Medical Center Hamburg, Germany

### PULMONARY HYPERTENSION

**THE RIGHT VENTRICLE UNDER PRESSURE**

**Chairpersons**

**ANDRÉ LOURENÇO** | CHUSJ, Porto

**CÁRMEN BRÁS SILVA** | FMUP, Porto

1. **IS EXERCISE TRAINING BENEFICIAL FOR THE RIGHT VENTRICLE IN PULMONARY HYPERTENSION? WHAT CAN WE LEARN FROM PRE-CLINICAL STUDIES**

   **MÁRIO SANTOS**

2. **NOVEL MECHANISMS IN PULMONARY HYPERTENSION: MICRO-RNAs AND RIGHT VENTRICULAR (DYS)FUNCTION**

   **RUI BAPTISTA** | CHUC, Coimbra

### CLOSING CEREMONY

**ROOM A**

**MESSAGE FROM THE PRESIDENT DA SPCCTV**

**SPCCTV ACADEMY SCIENTIFIC AWARDS**

**YOUNG INVESTIGATOR AWARD 2019 – BASIC SCIENCE**