

# SCIENTIFIC MEETING HERACLES NETWORK 2014

Madrid ISCI, May 21, 2014

## AGENDA

### Wednesday, May 21

#### HERACLES SCIENTIFIC MEETING PROGRAM

Room: AULA GUSTAVO PITTALUGA

14:30	<b>Arrival and reception</b>	
15:00		
<b>15:00</b>	<b>Welcome – J Marrugat – F Fernández-Avilés</b>	<b>10min</b>
15:10		

#### WORKSHOP WP2 & WP3

<b>15:10</b>	<b>WP2. Analysis of predictive and reclassification capacity of CVD biomarkers in cohort studies &amp; mendelian randomization trials</b>	<b>20min</b>
15:30		

**Speaker:** María Grau

**Title:** Derivation and validation of a set of 10-year cardiovascular risk predictive functions in Spain: the FRESCO Study

**Abstract:** Pooled analysis of 11 population-based Spanish cohorts (1992-2005) with 50,408 eligible participants. For each sex, two models were fitted for CHD, stroke, and both end-points combined: model A was adjusted for age, smoking, and body mass index and model B for age, smoking, diabetes, SBP, total and HDL cholesterol, and for hypertension treatment by SBP, and age by smoking and by SBP interactions. The new functions accurately estimate 10-year stroke and CHD risk in the adult population. The Framingham-REGICOR function provided similar CHD prediction but overestimated risk, the predictive capacity of the SCORE function is questioned.

<b>15:30</b>	<b>WP3. Biomarkers &amp; other prognostic factors in ACS, stroke &amp; CHF patients</b>	<b>20min</b>
15:50		

**Speaker:** Dr. Carolina Soriano

**Title:** GLOBAL DNA METHYLATION OF ISCHEMIC STROKE SUBTYPES

**Abstract:** Ischemic stroke is a heterogeneous disease with different etiological subtypes as the result of differences in physiopathology and genetic variants. Global DNA hypomethylation of stroke patients has been reported compared with healthy individuals and we replicated. This study is the first to analyze global DNA methylation differences between ischemic stroke subtypes. Contrary to what might be expected, there were no consistent global DNA methylation differences between large-artery atherosclerosis, small-artery disease, and cardio-aortic embolism strokes.

## WORKSHOP WP4 & WP5

15:50  
16:10

### WP4. Endothelial function and vascular regeneration

20min

**Speaker:** Dr. Irene López-Vilchez

**Title:** Approaches to other populations with elevated CVR, potential biomarkers and alternative therapeutic approaches

**Abstract:** We have collaborated in the evaluation of CEC, EPC in the PROCELL studies. Furthermore, we investigated elements of the CVR in patients with uremia, diabetes and other pathologies that develop endothelial dysfunction (ED). More recently, we have identified the existence of a relationship between major depression and cardiovascular risk and have been able to characterize a prothrombotic phenotype in patients with major depression and its improvement throughout treatment with SSRI [Lopez-Vilchez I, et al.J Affect Disord 2014;159:39-45]. We are identifying the antithrombotic mechanisms of SSRI (FIS P113/00517) and evaluating the possible value of VWF and ADAMTS-13 biomarkers as global biomarkers of ED.

16:10  
16:30

### WP5. Ion channels in the vasculature and CVDs

20min

**Speaker:** Dr. Miguel Angel Valverde

**Title:** BK channel-dependent modulation of ERK phosphorylation and cell proliferation in human vascular smooth muscle.

**Abstract:** Tungstate is a transition metal with antidiabetic, antiobesity and antihypertensive actions. Although there is substantial knowledge regarding its metabolic effects, the information on the primary target/s of tungstate is scarce. Tungstate triggers the activation of extracellular signal-regulated kinases (ERK) in different cell types, a process that requires the participation of an upstream Gi protein. The antihypertensive effect of tungstate depends on the activation of the vascular smooth muscle large conductance, voltage- and Ca<sup>2+</sup>-activated K<sup>+</sup> (BK) channel. The vasorelaxant effect of tungstate requires the presence of the pore-forming  $\alpha$ 1 (BK $\alpha$ 1) and the regulatory  $\beta$ 1 subunit of the channel. Sensitive G proteins to tungstate enhance the tungstate-mediated phosphorylation of ERK and modulates vascular smooth muscle cell proliferation.

16:30  
17:15

## GENDIAG AWARDS CEREMONY

45min

Best Publication, HERACLES 2013

Best HERACLIDES (YOUNG INVESTIGATOR) Publication, HERACLES 2013

- Presentation of the results of the best HERACLES publication 15min
- Presentation of the results of the best HERACLIDES INVESTIGATOR publication 15min

17:15  
17:30

## COFFE BREAK

15 min

17:30  
19:00

## HERACLES SCIENTIFIC COMMITTEE meeting

90min

Room: AULA PEDRO DÍEZ

17:30  
19:00

## HERACLIDES (young investigators) meeting

90min

Room: AULA 1

# SCIENTIFIC COMMITTEE MEETING AGENDA

Wednesday, May 21

17:30 **HERACLES Scientific Committee Meeting** 80min  
19:00 Room: **AULA PEDRO DÍEZ**

0. **Aprobación de la última acta del Comité (en anexo).**
1. **Repaso del estado de los proyectos por WorkPackage a cargo de cada coordinador de WP, basado en el documento seguimiento de WP aprobado en la última teleconferencia.**
  - WP2 - **R Elosua :**  
Analysis of predictive and reclassification capacity of CVD biomarkers in cohort studies & mendelian randomization trials.
  - WP3 - **M Heras/ M Roqué :**  
Biomarkers & other prognostic factors in ACS, stroke & CHF patients.
  - WP4 - **J Tamargo :**  
Endothelial function and vascular regeneration.
  - WP5 - **Miguel A Valverde :**  
Ion channels in the vasculature and CVDs.
2. **Financiación de proyectos colaborativos.**
  - a. **Proyectos financiados hasta ahora.**
  - b. **Convocatoria FIS 2014, Horizon 2020....otras oportunidades.**
3. **Ejecución económica RIC. Partidas por grupos y partidas de coordinación.**
4. **Consortium Agreement (Deliverable D1)**
5. **Protocolos de los subproyectos de cada WP (Deliverable D2)**
6. **Estudio ATHOS. Expresión de interés.**
7. **Próxima webex Comité Científico.**

## RIC INVESTIGATORS DINNER

20:30 **HOTEL CASTILLA PLAZA – PASEO DE LA CASTELLANA, 220**



**PROGRAMA HERACLES**  
Red de Investigación  
Cardiovascular

# HERACLIDES (young investigators) MEETING AGENDA

## Wednesday, May 21

### HERACLIDES INVESTIGATORS MEETING

Room: **AULA 1**

**17:40**    **Introducción y presentación del blog**    **10min**  
17:50    Ana Paula Dantas

### NEW HERACLIDES WELCOME

**17:50**    CDC Canarias – “La evolución de una cohorte de población general”    **15min**  
18:05    Itahisa Marcelino

**18:05**    DP-IACS – “Mutaciones en los genes ABCG5 y ABCG8 en sujetos con hipercolesterolemias primarias”    **15min**  
18:20    Itziar Lamiquiz Moneo

**18:20**    **Presentación de COLMAH**    **20min**  
18:40    Pilar Ciudad y Laura Jiménez

**18:40**    Discusión y propuestas    **10min**  
18:50

### RIC INVESTIGATORS DINNER

**20:30**    HOTEL CASTILLA PLAZA – PASEO DE LA CASTELLANA, 220