

III CABIMER International Workshop

New Frontiers in Metabolism: From Cell to Systems Biology



March 4th-6th 2024,
Seville, Spain

PROGRAM

Day 1: Monday March 4th

- 17:00-17:55 Registration-Welcome coffee
- 17:55-18:00 Welcome & Introduction from Organisers
- 18:00-18:50 **Keynote Lecture: Kathryn MOORE** (NYU, USA) (40m+10m discussion)
(lncRNAs in metabolism & CVD)
Immuno-Metabolic Mechanisms of Cardiovascular Disease
- Session 1A: Metabolism & Cardiovascular disease**
Chair: Inés Pineda Torra
- 18:50-19:20 **Mercedes RICOTE** (Centro Nacional de Investigaciones Cardiovasculares, Madrid) (25m+5m discussion)
Mother's milk drives maturation of heart metabolism
- 19:20-19:35 Short talk selected from Abstracts (10m+5m discussion)
- 19:35 End of Day 1
- 20:30 Speaker's Dinner (Venue TBD)

Day 2: Tuesday March 5th

- Session 1B: Metabolism & Cardiovascular disease**
Chair: Benoit Gauthier
- 9:00-9:30 **Bart STAELS** (Institut Pasteur de Lille, France) (25+5)
Interplay between non-alcoholic fatty liver and the heart
- 9:30-10:00 **Pilar MARTIN** (Centro Nacional de Investigaciones Cardiovasculares, Madrid) (25+5)
T cell-derived non coding RNA in inflammaging and metabolic imbalance
- 10:00-10:30 **Alma ZERNECKE** (University Hospital Würzburg, Germany) (25+5)
Macrophage diversity in atherosclerosis
- 10:30-11:00 Coffee break (CABIMER)
- 11:00-11:30 **Inés PINEDA TORRA** (CABIMER, Sevilla) (25+5)
Understanding cardiovascular risk in women through multiomic analyses
- 11:30-11:45 Short talk selected from Abstracts (10+5)
- 11:45 End of Session 1B

Day 2: Tuesday March 5th

Session 2A: Hepatic Metabolism & Disease

Chair: Benoit Gauthier

- 11:45-12:15 **Ruben NOGUEIRAS** (Universidad Santiago de Compostela) (25+5)
Reprogramming metabolism in hepatic stellate cells: implications in liver fibrosis
- 12:15-12:45 **Malu MARTINEZ-CHANTAR** (CicBiogune, Bizkaia) (25+5)
Magnesium Disturbances in Liver Diseases: Unveiling a Novel Driving Mechanism in Hepatology
- 12:45-13:15 **Anabel ROJAS** (CABIMER, Sevilla) (25+5)
Modifying the hepatic stellate cell phenotype in liver fibrosis and tumor microenvironment
- 13:15-13:30 Short talk selected from Abstracts (10+5)
- 13:30 End of Session 2A

POSTER SET UP

13:30-14:30 **Lunch/Networking (CABIMER)**

Session 2B: Hepatic Metabolism & Disease

Chair: Benoit Gauthier

- 14:30-15:00 **Sophie LOTERSZTAJN** (Center for Research in Inflammation, Paris, France) (25+5)
Immunometabolic regulation of liver fibrosis: from pathogenesis to therapeutic targets
- 15:00-15:15 Short talk selected from Abstracts (10+5)
- 15:15 End of Session 2B

Session 3A: Metabolism & Diabetes

Chair: Benoit Gauthier

- 15:15-15:45 **Angel NADAL** (Universidad Miguel Fernández, Elche) (25+5)
Bisphenol-A signaling through the estrogen receptor ERbeta outside the nucleus
- 15:45-16:15 **Heiko LICKERT** (Helmholtz Zentrum München, Germany) (25+5)
Beta cell development and regeneration
- 16:15-16:30 Short talk selected from Abstracts (10+5)
- 16:30-16:45 Short talk selected from Abstracts (10+5)

16:45-17:15 **Coffee Break (CABIMER)**

Session 3B: Metabolism & Diabetes

Chair: Anabel Rojas

- 17:15-17:45 **Iria GOMEZ TOURIÑO** (Universidad Santiago de Compostela) (25+5)
Small matters: immunology of small molecules in Type 1 Diabetes
- 17:45-18:15 **Maïke SANDER** (Max Delbrück Center for Molecular Medicine, Berlin, Germany) (25+5)
Understanding and treating diabetes with islet stem cell models
- 18:15-18:45 **Benoit GAUTHIER** (CABIMER, Sevilla) (25+5)
Coupling immune tolerance to beta cell regeneration to treat type 1 diabetes mellitus
- 18:45 End of Day 2

FREE TIME/DINNER ON YOUR OWN

Day 3: Wednesday March 6th

Session 4: Immunometabolism, Signalling & Transcription

Chair: Inés Pineda Torra

- 9:30-10:00 **Eckardt TREUTER** (Karolinska Institute, Stockholm, Sweden) (25+5)
Epigenetic control of metabolism and inflammation by transcriptional corepressors
- 10:00-10:30 **Antonio CASTRILLO** (Inst. de Investigaciones Biomédicas Alberto Sols, Madrid) (25+5)
Transcriptional programming of macrophages during homeostasis and inflammation by LXR Nuclear Receptors
- 10:30-10:45 Short talk selected from Abstracts (10+5)

10:45-11:15 **Coffee break (CABIMER)**

Day 3: Wednesday March 6th

Session 4: Immunometabolism, Signalling & Transcription

Chair: Inés Pineda Torra

- 11:15-11:45 **Nicolas VENTECLEF** (Inst. Necker des Enfants Malades, Paris, France) (25+5)
Immuno-metabolic plasticity of adipose tissue resident macrophages in metabolic disease
- 11:45-12:15 **Carlie DE VRIES** (Amsterdam University Medical Center, The Netherlands) (25+5)
FHL2 goes from forensics to metabolism
- 12:15-12:30 Short talk selected from Abstracts (10+5)
- 12:30 End of Session 4

12:30-13:30 POSTER SESSION

13:30-14:30 **Lunch/Networking (CABIMER)**

Day 3: Wednesday March 6th

Session 5: Metabolism & Systems Biology

Chair: TBD

- 14:30-15:00 **W. Lee KRAUS** (I. Green Center for Reproductive Biology Sciences, UTSW, Dallas, USA) (25+5)
Regulation of adipocyte and cardiomyocyte metabolism and function by NAD⁺ and ADP-ribosylation
- 15:00-15:30 **Nuria AMIGÓ** (Universitat Rovira i Virgili / Biosfer Teslab, Reus) (25+5)
Development of new in vitro diagnostic tests based on Nuclear Magnetic Resonance metabolomics and pattern recognition for early diagnosis of cardiometabolic and cardiovascular disease
- 15:30-15:45 Short talk selected from Abstracts (10+5)
- 15:45-16:00 Short talk selected from Abstracts (10+5)
- 16:00-16:30 **Søren BRUNAK** (Novo Nordisk Found. Center for Protein Research, Univ. Copenhagen) (25+5)
Integration of clinical and multi-omics data for disease trajectory analysis
- 16:30 End of Session 5

16:30-17:30 POSTER SESSION/ **Coffee break**

17:30-18:00 JOINT PANEL DISCUSSION (All speakers): Metabolism: What next?

Chair: Inés Pineda Torra, Anabel Rojas, Benoit Gauthier

18:00 Wrap up+ Closing Remarks

FREE TIME

21:00 Gala Dinner (Location TBD)



CSIC



Junta de Andalucía

REFERENCIA PROYECTO:
QUAL21 007 USE

CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN
Secretaría General de Investigación e innovación
Dirección General de Planificación de la Investigación