

ESCCA 2018 | VALENCIA, SPAIN
13-15 SEPTEMBER 2018

PRELIMINARY FULL PROGRAMME

PRE-CONFERENCE PROGRAMME

Wednesday 12 September 2018

Venue: Centro de Investigación Príncipe Felipe

Pre-registration required via the online registration form for the Conference.

10.00-16.00	COURSE 1 - BASIC TRAINING COURSE ON CYTOMETRY ANALYSIS TOOLS In this training course participants will have the opportunity to gain hands-on experience with the most popular commercial software as well as with the latest open-source, freely available, solutions for standardized cytometry data management, integration and analysis. The second part of the Course will be devoted to training in ESCCABase, the ESCCA repository of annotated cytometric files, and the ESCCAViewer, the software specifically designed by ESCCA for the analysis of the ESCCABase files. <i>Level: Basic. Max. 20 places.</i>
10.00-11.30	Critical review of third party flow cytometric software: Commercial software Critical review of third party flow cytometric software: Free software Alfonso Blanco (Dublin, EI)
11.30-12.00	Coffee break
12.00-13.30	Analysis tools for high-content cytometry: Image in flow Cytometry software. Francisco-Sala-de Oyanguren (Lausanne, CH) New Basic tools for Cytometry education: Cytometer Simulators Enrique O'Connor (Valencia, ES)
13.30-14.30	Lunch
14.30-16.00	ESCCA initiatives for data analysis in cytometry education: ESCCABase Mario D'Atri and Claudio Ortolani (Urbino, IT) ESCCA initiatives for advanced data analysis in Cytometry: Daedalus Project Iannis Drakos (Copenhagen, DK)

10.00-16.00 COURSE 2 - ADVANCED TRAINING COURSE ON CYTOMETRY OF MICROPARTICLES

In this training course the basis and the critical points of the cytometric analysis of different types of microparticles will be commented. Experts will present the most recent guidelines for the optimization and standardization of preparation and analysis. Participants will gain hands-on experience through wet lab practicals with different flow cytometers and commercial systems.

Level: Advanced. Max. 15 places.

10.00-11.30 Myth and Reality in the Analysis of Microparticles by Flow Cytometry

Jordi Petriz (Barcelona, ES)

Cytometric Analysis of Cell-to-Cell Communication by Cell Particles

Barbara Canonico (Urbino, IT)

Flow Cytometric Analysis of microvesicle function in vivo

Pilar Sepúlveda (Valencia, ES)

11.30-12.00 Coffee break

12.00-13.30 Advances in flow cytometric analysis of microparticles: Instrumentation**Advances in flow cytometric analysis of microparticles: Exosome isolation and detection**

Coordinator: Jordi Petriz (Barcelona, ES)

13.30-14.30 Lunch

14.30-16.00 Wet Lab Practical run by Faculty at Principe Felipe Research Center

- Setup of flow cytometric determination of microparticles
- Isolation and detection of microparticles using commercial systems

Data analysis and interpretation**10.00-16.00 COURSE 3 - BASIC TRAINING COURSE ON CYTOMETRY IN VETERINARY AND ANIMAL SCIENCES**

In this training course, the application of flow cytometry to the analysis of animal samples for clinical and research purposes will be discussed. Participant will gain hands-on experience in analyzing samples of different species, including companion animals, laboratory rodents and marine mammals, through wet lab practicals with different flow cytometers and commercial systems.

Level: Basic. Max. 15 places.

10.00-11.30 Applications of Flow Cytometry in Clinical Veterinary

Fulvio Ronciato (Torino, IT)

Applications of Flow Cytometry in Zootechnology

Alberto Alvarez-Barrientos (Badajoz, ES)

11.30-12.00 Coffee break

12.00-13.30 Optimizing Flow Cytometry Studies in Small Laboratory Animals

Alicia Martínez-Romero (Valencia, ES)

Applications of Flow Cytometry for Immune Monitorization of Cetaceans

Mar Felipo (Valencia, ES)

13.30-14.30 Lunch

14.30-16.00 Wet Lab Practical run by Faculty in the Oceanographic Laboratory:

- Flow cytometric analysis of hematopoietic cells and tissues from healthy and dogs and horses
- Flow cytometric analysis of hematopoietic cells and tissues from small laboratory animals

Blood sampling and flow cytometric analysis of immune functions in marine mammals

10.00-16.00 COURSE 4 - ADVANCED TRAINING COURSE ON CLL MRD

In this training course, by analyzing listmode files of real cases of CLL MRD, participants will gain experience on instrument optimization, data analysis and data interpretation under the guidance of an expert hematologist.

Level: Advanced. Max. 10 places.

Faculty: Andy Rawstron (Leeds, UK)

10.00-11.30 Introduction

The clinical impact of MRD monitoring in CLL: using MRD to predict outcome and optimise treatment & monitoring

11.30-12.00 Coffee break

12.00-13.30 Practical approach to MRD detection:

- what is the optimal detection limit (sensitivity), technique (flow cytometry, quantitative PCR and high-throughput sequencing), and source of cells (peripheral blood vs. bone marrow)

13.30-14.30 Lunch

14.30-16.00 Computer Practicals at Informatic Room, Principe Felipe Research Center:

- interactive MRD analysis workshop: understanding the analytical approach

Hands on data analysis:

- practical session to facilitate analysis of MRD with novel treatments at the detection limit and assessing data quality – working in pairs on real files, at least one member of the pair should have some experience of analysing flow cytometry data

Afternoon, time TBC	PRE-REGISTRATION FOR THE CONFERENCE at the Valencia Conference Centre
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