



FIFTH ESCCA INTERNATIONAL SUMMER SCHOOL ON CYTOMETRY

26 JUNE-7 JULY 2017

Valencia, Spain

ANNOUNCEMENT AND PRELIMINARY PROGRAMS



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2017 EDITION OF ESCCA SUMMER SCHOOL ON CYTOMETRY?

The ESCCA INTERNATIONAL SUMMER SCHOOL ON CYTOMETRY (ISSC) is a part of the ESCCA Program for Continuous Education (CE) in Cytometry that will lead to a future European Certification in Cytometry. ESCCA is also an approved CE provider of the International Cytometry Certification Examination (ICCE). For more details, please visit www.escca.eu.

The Fifth edition of ISSC will be held on 26 June-7 July 2017, organized by European Society for Clinical Cell Analysis (ESCCA), the University of Valencia and the Principe Felipe Research Center, with the collaboration of the Oceanogràfic (City of Sciences and Arts, Valencia) and the Valencia Sur Veterinary Hospital. Course registration is already open.

The previous editions of ISSC have brought together up to now more than 150 students from 25 countries all around the world and more than 30 teachers from 16 European countries. ISSC has been sponsored by 22 companies, including many ESCCA Industrial Partners.



The ISSC courses, taught in English, are informal, open and convivial, and include social activities. Although all the ISSC courses are open to people active in Cytometry, experienced or specialized cytometrists will benefit better from the specialized courses. All the Courses cover data analysis, use and comparison of cytometry software, and real data review, being thus suitable also for those responsible for final results.

Faculty of international teachers of EISC include Alberto Alvarez-Barrientos (ES), Alfonso Blanco (EI), Bruno Brando (IT), Deborah J. Burks (ES), Paolo Cappella (IT), Irene Cervelló (ES), Andrea Cossarizza (IT), Sara De Biasi (IT), Silvia della Bella (IT), Paula Fernández (CH), Guadalupe Herrera (ES), José-Manuel Ligos (ES), Alicia Martínez (ES), José-Luis Mateos (ES), Inmaculada Moreno (ES), Josep Nomdedeu (ES), Luke Noon (ES), Enrique O'Connor (ES), Claudio Ortolani (Venice, IT), Stefano Papa (IT), Martín Pérez-Andrés (ES), Jordi Pétriz (ES), Graham Pockley (UK), Frank Preijers (NL), Katherina Psarra (GR), Andrew Rawstron (UK), Consuelo Rubio (ES), Anabelle Sequeira (FR), José-Carlos Segovia (ES), Pilar Sepúlveda (ES), José Antonio Tapia (ES).

COURSE 1. FUNCTIONAL CYTOMETRY: A PRACTICAL APPROACH

(26-30 JUNE 2017; Level: Basic)

Summary: Overview of Single-cell technologies (Flow cytometry, Mass-spectrometry cytometry; Cell Sorting, Image-in-Flow Cytometry, High-Content analysis by Bioimaging). Overview of applications of functional Cytometry and Cytomics. Functional assays of cell health (Cell cycle and cell proliferation; Drug metabolism; Drug effects; Cell death). Functional assays of cell communication and activation (extracellular and intracellular signaling). Functional assays of cell response (Cytoenzymology; Phagocytosis; Oxidative responses; Microvesicle release; Secretion of extracellular molecules; Cytotoxicity). Analysis of microorganisms. Practicals in wet lab and computer room.



COURSE 2. FLOW CYTOMETRY IN VETERINARY AND ANIMAL SCIENCES
(26-30 JUNE 2017; Level: Basic)

Summary: Basic aspects and general applications of cytometry. Applications of cytometry in Clinical Veterinary. Applications of cytometry in Industrial Veterinary. Applications of cytometry in Marine Mammals and Fish. Applications of Cytometry in Animal Reproduction. Polychromatic immunophenotype. Functional analysis of innate immune responses. Analysis of cell proliferation and cell death. Diagnosis of leukemias and lymphomas in animals. Functional analysis of hemostasia. Optimizing sample collection and preparation procedures. Data management: Acquisition, analysis, display and interpretation. Standardization, assay validation and Quality control. Practicals in wet lab with animal samples (including lab animals, cetaceans and pets) and case-oriented computer practicals.

This course is organized with the collaboration of the Principe Felipe Research Center, the Oceanogràfic (the largest Aquarium in Europe) and the Valencia Sur Veterinary Hospital. The course will be held mostly in the laboratory of the Principe Felipe Research Center and in the facilities of the Oceanogràfic.



COURSE 3. FLOW CYTOMETRY IN HEMATOLOGY: A TECHNICAL APPROACH
(3-7 JULY 2017; Level: Specialized)

Summary: Overview of applications of cytometry in Hematology. Sample collection and preparation procedures: Blood, bone marrow, lymph nodes and special samples. Multiparametric immunophenotype: Settings, compensations and gating strategies. Data management: Acquisition, analysis, display and interpretation. Assay standardization and validation. Quality control. Case-oriented immunophenotypic studies in wet lab and computer room: Normal Hematopoiesis; Erythrocytes and erythroid cells; Acute and chronic leukemias; Lymphomas; Myelodysplastic syndromes; Analysis of rare cells and clones; Detection of minimal residual disease. Case-oriented functional studies in wet lab and computer room: Paroxysmal Nocturnal Haemoglobinuria; Drug resistance; Stem cells; Platelets and microvesicles.



**COURSE 4. CYTOMETRY AND STEM CELLS: A PRACTICAL APPROACH
(3-7 JULY 2017; Level: Specialized)**

Summary: Overview of the basic aspects and clinical relevance of stem cells. Overview of Basic and Clinical applications of Cytometry in Stem Cell Research and Therapy. Working with Stem Cells. Basics of cytometer operation, sample preparation and data acquisition. Basics of data analysis and interpretation. Practicals in wet lab and computer files on: Identification, phenotypic and functional characterization of human and murine stem cells. Isolation of Stem Cells by FACS and MACS. Enumeration and isolation of circulating hematopoietic and endothelial stem cells; Assessment of cell therapeutic products.



TRAVEL AND ACCOMODATION

ISSC may provide accommodation in a University Residence located at walking distance (about 15 min) of Course Facilities. The on-line reservation fee provided by ISSC organization Includes 6-night lodging (Sunday-Friday) at bed & breakfast rate in a University Residence, at 15 min walking distance from venue. Additional nights may be requested to the organization.

Valencia international airport is connected directly by regular and **low cost airlines** to Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Italy, Morocco, Netherlands, Portugal, United Kingdom, Romania, Russia, Switzerland, Turkey and Ukraine. Valencia is also connected by plane and by high-speed trains to Madrid (1h 30 min) and Barcelona (3 hours). For more information on Valencia, please visit www.turisvalencia.es



WHO SHOULD ATTEND THE SUMMER SCHOOL ON CYTOMETRY?

Although all the ISSC courses are open to people active in Cytometry, experienced or specialized cytometrists will benefit better from the specialized courses. All the Courses cover data analysis, use and comparison of cytometry software, and real data review, being thus suitable also for those responsible for final results. The registration fee for participants who are not members of ESCCA, includes a one-year membership in ESCCA.

SUMMER SCHOOL TRAVEL FELLOWSHIPS

ISSC offers a limited number of Travel Fellowships (**150 €**) to participants from developing countries or from countries not having a local cytometry society. To this purpose, a motivation letter should accompany the Registration form (see Registration Section) or e-mailed to José-Enrique O'Connor (jose.e.oconnor@uv.es)



 <p>ESCCA European Society for Clinical Cell Analysis</p>	5TH International Summer School on Cytometry 26-30 June and 3-7 July 2017 Valencia, Spain	
REGISTRATION FEES		
	REDUCED *	STANDARD †
FULL COURSE °		
EARLY REGISTRATION (Before 31 May 2017)	500 €	600 €
LATE REGISTRATION (Until June 15, 2017)	600 €	700 €
<p>*) For members of ESCCA, SIC, UVEG or CIPF, and attendants of previous editions of the Summer School. Includes Course materials, lunches and coffees, Welcome Party and Course Dinner and membership in ESCCA.</p> <p>†) Includes Course materials, lunches and coffees, Welcome Party and Course Dinner and membership in ESCCA.</p> <p>°) Registrants in two courses (one in Week 1 and one in Week 2) will have 20% reduction in course fees.</p>		
ACCOMMODATION PER WEEK[#]		
EARLY REGISTRATION (Before 31 May 2017)	300 €	300 €
LATE REGISTRATION (Until June 15, 2017)	350 €	350 €
<p>#) Includes 6-night lodging (check-in: Sunday; Check-out: Saturday) at bed & breakfast rate at walking distance from venue. Additional nights may be requested to the organization.</p>		
<p>Students from emerging countries and from countries with no national Cytometry society may apply for one of the ESCCA Travel Fellowships covering the cost of accommodation (equivalent to 300 € value). To apply, please send a short CV and a motivation letter to: jose.e.oconnor@uv.es</p>		
<p>Course Information and Registration Forms: https://escca.eu/education/international-course http://www.cipf.es/web/portada/summer-school Registration: jose.e.oconnor@uv.es Additional Information and requests for official Invitation Letters (for Visa purposes): jose.e.oconnor@uv.es</p>		

REGISTRATION FORM

Name and Surname:	
Address:	
e-mail:	
Phone:	

COURSE AND ACCOMODATION CHOICES

(Tick one or two courses and accomodation as appropriate)

Course 1	FUNCTIONAL CYTOMETRY: A PRACTICAL APPROACH (26-30 June 2017)	
Course 2	FLOW CYTOMETRY IN VETERINARY AND ANIMAL SCIENCES (26-30 June 2017)	
Course 3	FLOW CYTOMETRY IN HEMATOLOGY: A TECHNICAL APPROACH (3-7 July 2017)	
Course 4	CYTOMETRY OF STEM CELLS: A PRACTICAL APPROACH (3-7 July 2017)	
Week 1	ACCOMODATION	
Week 2	ACCOMODATION	

EARLY REGISTRATION FEES

REDUCED REGISTRATION		STANDARD REGISTRATION	
Single Course	500 €	Single Course	600 €
Single Course + Accomodation	800 €	Single Course + Accomodation	900 €
Double Course	800 €	Double Course	960 €
Double Course + Accomodation	1400 €	Double Course + Accomodation	1560 €

LATE REGISTRATION FEES

REDUCED REGISTRATION		STANDARD REGISTRATION	
Single Course	600 €	Single Course	700 €
Single Course + Accomodation	950 €	Single Course + Accomodation	1050 €
Double Course	960 €	Double Course	1120 €
Double Course + Accomodation	1660 €	Double Course + Accomodation	1820 €

	TOTAL REGISTRATION (€)	
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<p>Please transfer the funds to:</p> <p>Bank: BANKIA</p> <p>IBAN: ES14 2038 9938 4160 0020 4038</p> <p>SWIFT CODE: CAHMESMMXXX</p> <p>Account Holder: FCV CENTRO INVESTIGACIÓN PRÍNCIPE FELIPE</p> <p>VERY IMPORTANT: Please indicate your name and "ESCCA Summer School 2017" as the Concept of the Bank Transfer</p>
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For confirmation, please send a copy of this Registration Form to: jose.e.oconnor@uv.es