

FIRST ANNOUNCEMENT



VALENCIA (SPAIN), 7-18 JULY 2014

In collaboration with:

The University of Valencia, Principe Felipe Research Center,
Iberian Society for Cytometry (SIC) and ESCCA Industrial Partners

VNIVERSITAT
D VALÈNCIA


PRINCIPE FELIPE
CENTRO DE INVESTIGACION



Local organiser: José-Enrique O'Connor (jose.e.oconnor@uv.es)

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www.escca.eu/meetings/summer-school

THE SECOND ESCCA SUMMER SCHOOL ON CYTOMETRY

ESCCA Educational Committee created a program of courses that will lead to a future European Cytometry Certification. The first edition of ISSC was held successfully in Valencia, Spain on July 2013, bringing together 57 students (from 22 countries) and 33 teachers (from 16 countries).

The second edition of ISSC will be held on 7-18 July 2014, and will consist of two series of two parallel 5-day courses starting from Monday morning to Friday afternoon and limited to 30 students per course. The courses will approach methods and applications of Cytometry and Cytomics in basic, clinical and translational fields, and will include practical aspects of assay design and performance, data analysis and interpretation, using commercially available cytometers, reagents and software.

Theoretical and technical lectures delivered by international experts will alternate with extensive practical exercises in wet labs and computer rooms. The ISSC courses, taught in English, are informal, open and convivial, and include social activities.

The Courses will be held in the facilities of the Faculty of Medicine, the University of Valencia, and the Principe Felipe Research Center, Valencia, Spain. The theoretical lectures and technical seminars of the Courses will be held in classrooms. Hands-on exercises will be scheduled in wet laboratories, using several models of cytometers and reagents from different commercial companies. Computer rooms will be available for real data analysis using different commercial and public-domain software packages.

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.

REGISTRATION FEES (EARLY REGISTRATION UNTIL MAY 31, 2014)

	ESCCA MEMBERS*	NON ESCCA MEMBERS**
COURSE(S) ONLY		
Before May 31, 2014	550 €	650 €
Late registration (Until June 30, 2014)	650 €	750 €
Attendees registering for two courses in separate weeks will benefit of 20% discount in the total registration fee!		
ACCOMMODATION#		
Before May 31, 2014	350 €	350 €
Late reservation (Until June 15, 2014)	450 €	450 €
*) Includes Course materials, lunches and coffees, Welcome and Gala Dinners and Social activities.		
**) Includes Course materials, lunches and coffee, Welcome and Gala Dinners and Social activities plus one-year full membership in ESCCA.		
#) 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.		
On-line registration will open on FEBRUARY 15, 2014 www.escca.eu/meetings/summer-school		

FUNCTIONAL CYTOMETRY: UNDERSTANDING AND APPLYING CYTOMIC ASSAYS

(30 Attendees; Level: Basic) 7-11 July 2014

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.

FLOW CYTOMETRY IN HEMATOLOGY: A TECHNICAL APPROACH

(30 Attendees; Level: Basic) 7-11 July 2014

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.

CYTOMICS IN DRUG RESEARCH AND TOXICOLOGY: A FUNCTIONAL APPROACH

(30 Attendees; Level: Specialized) 14-18 July 2014

Summary: Introduction to Cell-Based methods in Pharmacology and Toxicology. Overview of cytomic technologies (Flow cytometry, Mass-spectrometry cytometry; Cell Sorting, Image-in-Flow Cytometry, High-Content analysis by Bioimaging). Overview of applications of Cytomics in drug research, drug discovery and Toxicology. Cytomic analysis of the stages and consequences of the drug-cell interactions (Receptor biology and receptor-mediated drug effects; Drug transport across membranes; Intracellular drug metabolism; Intracellular drug effects; Cell lesion and cell death). High-Content Cytomics. High-Troughput Cytomics. Cytomic assays for general and organ-specific toxicity (Immunotoxicity; Hematotoxicity; Genotoxicity; Endocrine disruption; Ecotoxicity). Cytomics and predictive Toxicology. Integration of Cytomics in preclinical and regulatory strategies for drug safety and chemical risk assessment. Practicals in wet lab and computer room.

CYTOMETRY AND STEM CELLS: TRANSLATIONAL RESEARCH AND THERAPY

(30 attendees; Level: Specialized) 14-18 July 2014

Summary: Overview of the basic biology of Stem cells. Overview of the clinical relevance of Stem cells. Overview of Cytometry applications in Stem Cell Research and therapy. Cytometric methods for Stem Cell study: Identification and phenotypic characterization; Functional characterization; Purification of Stem Cell subpopulations. Cytometry in basic and translational studies of Stem Cells: Embryonic and induced pluripotent stem cells; Hematopoietic stem cells; Mesenchymal stem cells; Cancer stem cells. Cytometry in clinical studies of Stem Cells: Enumeration and isolation of circulating Stem Cells; Assessment of cell therapeutic products; Monitoring of Stem Cell therapy and Tissue Regeneration. Practicals in wet lab and computer room.

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.

For those attendants willing to manage their own accommodation, travel agency Levante Tours (empresas@viajeslevante.com) can arrange standard hotel rooms (3-4 stars) at reduced University rate (around 70 €/night, on bed and breakfast fare). Please quote "ESCCA Valencia 2014" to benefit from these reduced rates when contacting Ms. Leonor Soriano.

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

SUMMER SCHOOL TRAVEL FELLOWSHIPS

ISSC will offer 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) and Claude Lambert (claude.lambert@chu-st-etienne.fr)

