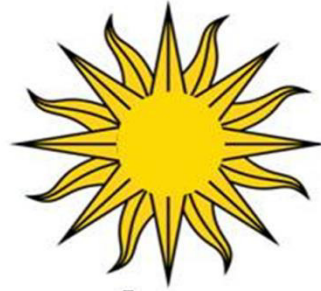




International Summer School on Cytometry



SIXTH INTERNATIONAL SUMMER SCHOOL ON CYTOMETRY

Valencia, Spain 8-12 JULY 2019

<https://www.escca.eu/education/international-course>

<http://www.cipf.es/web/portada/summer-school>

Organized by the European Society for Clinical Cell Analysis (ESCCA) with the support of University of Valencia, Principe Felipe Research Center, Incliva Foundation and Iberian Cytometry Society (SIC).

The Sixth edition of the International Summer School on Cytometry will be held on 8-12 July 2019, and will consist of two parallel 5-day courses starting from Monday morning to Friday afternoon and limited to 20 students per course.

The courses FLOW CYTOMETRY IN HEMATOLOGY: A TECHNICAL APPROACH and CYTOMETRY AND STEM CELLS: TRANSLATIONAL RESEARCH AND THERAPY will present methods and applications of Cytometry and Cytomics in basic, clinical and translational fields, and will approach practical aspects of assay design and performance, data analysis and interpretation, using commercially available cytometers, reagents and software. Theoretical lectures and technical seminars delivered by international experts will alternate with extensive practical exercises in wet labs and computer rooms.

Members of ESCCA and other ESCCA-affiliated societies, as well as members of the organizing institutions will have reduced registration fee. Also, the Summer School offers a limited number of Fellowships covering registration to participants from developing countries or from countries not having a local cytometry society. To this purpose, a motivation letter should be addressed to José-Enrique O'Connor (jose.e.oconnor@uv.es).

OVERVIEW OF COURSE CONTENTS

FLOW CYTOMETRY IN HEMATOLOGY: A TECHNICAL APPROACH

Lectures and Seminars: 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.

CYTOMETRY AND STEM CELLS: TRANSLATIONAL RESEARCH AND THERAPY

Lectures and Seminars: 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: Basics of cytometer operation, sample preparation and data acquisition; Identification and functional characterization of human and murine Stem Cells; Isolation of Stem Cells by FACS and MACS; Absolute count and isolation of hematopoietic and endothelial precursors; Assessment of cell therapeutic products.

REGISTRATION FEES		
	Members of ESCCA, ESCCA-Affiliated Societies and Sponsoring Institutions	OTHER ATTENDANTS‡
FULL COURSE°		
EARLY REGISTRATION (Before 30 June 2019)	400 €	500 €
LATE REGISTRATION (Until July 8, 2019)	500 €	600 €
‡) Includes Course materials, lunches and coffees, Welcome Party and Course Dinner plus one-year full membership in ESCCA. Attendees of previous ESCCA Schools in Valencia will have 20% reduction in course fees.		
Students from emerging countries and from countries with no national Cytometry society may apply for an ESCCA Travel Fellowship covering the cost of registration.		
Course Information and Registration: https://escca.eu/education/international-course http://www.cipf.es/web/portada/summer-school Confirmation and Additional Information: jose.e.oconnor@uv.es		