ESCCA 2018 | VALENCIA, SPAIN
13-15 SEPTEMBER 2018

FINAL FULL PROGRAMME

PRE-CONFERENCE PROGRAMME

Wednesday 12 September 2018

Time schedule for all pre-conference training courses:	
10.00-11.30	session 1
11.30-12.00	coffee break
12.00-13.30	session 2
13.30-14.30	lunch
14.30-16.00	session 3

Venue: Centro de Investigación Principe Felipe

A brief description of the content of the training courses follows below. For the detailed programme, please see the Programme page at the Conference website.

10.00-16.00	**COURSE 1 - BASIC TRAINING COURSE ON CYTOMETRY ANALYSIS TOOLS** * fully booked * Faculty: Mario D'Atri (Urbino, IT), Alfonso Blanco (Dublin, IE), Iannis Drakos (Copenhagen, DK), Claudio Ortolani (Urbino, IT), Francisco-Sala-de Oyanguren (Lausanne, CH). and other Experts in Cytometry Software 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. *Level: Basic. Max. 20 places.*
10.00-16.00	**COURSE 2 - ADVANCED TRAINING COURSE ON CYTOMETRY OF MICROPARTICLES** * fully booked * Faculty: Barbara Canonico (Urbino, IT), Jordi Petriz (Barcelona, ES), Pilar Sepúlveda (Valencia, ES) 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.*

10.00-16.00	**COURSE 3 - BASIC TRAINING COURSE ON CYTOMETRY IN VETERINARY AND ANIMAL SCIENCES** Instructors: Alberto Álvarez-Barrientos (Badajoz, ES), Alicia Martínez-Romero (Valencia, ES), Fulvio Rondiato (Torino, IT), Mar Felipo (Valencia, ES) 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.*
10.00-16.00	**COURSE 4 - ADVANCED TRAINING COURSE ON CLL MRD** * fully booked * Faculty: Andy Rawstron (Leeds, UK) 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.*

17.00-19.00	**ESCCA EUROPEAN CYTOMETRY CERTIFICATION EXAMINATION** ESCCA is aware of the technical complexity and constant evolution of cytometry instrumentation and its applications, requiring continuous training and education. We also aim to help ESCCA members, and especially the young ones, to attain excellence in their work in cytometry, be it in the clinical or in the basic fields. In order to attest the level of excellence of cytometrists the ESCCA Education and Accreditation Committee has created the European Cytometry Certificate. For the official examination for the European Certificate for Cytometry Operators candidates will be presented with some 100 multiple choice questions on a wide range of topics. For more information and the application guidelines, please see the ESCCA Examination webpage in the Membership section. *Restricted to ESCCA members; max. 30 places.* *Information and registration via the ESCCA website, Membership section.*

16.30-19.30	**PRE-REGISTRATION FOR THE CONFERENCE** **at the Valencia Conference Centre**

CONFERENCE PROGRAMME

Venue: Valencia Conference Centre

Thursday 13 September 2018

| 09.00-09.15 | | OPENING SESSION | AUDITORIO 1 |

Chairs: Katherina Psarra (Athens, GR), Enrique O'Connor (Valencia, ES)

| 09.00-09.15 | | **Welcome addresses & announcements** |

- Welcome from the ESCCA President: Katherina Psarra (Athens, GR)
- Welcome from the SIC President: Enrique O'Connor (Valencia, ES)

| 09.15-10.00 | PLENARY 1 | KEYNOTE LECTURE | AUDITORIO 1 |

Chairs: Katherina Psarra (Athens, GR), Enrique O'Connor (Valencia, ES)

| 09.15-10.00 | PLE-01-01 | **The Tsunami of Biological Drugs: Are Cytometrists Ready For The Storm?** |

Bruno Brando (Legnano, IT)

| 10.00-10.30 | | ESCCA INDUSTRIAL PARTNER PRESENTATION |

| 10.30-11.00 | | BREAK - EXHIBITION |

| 11.00-12.30 | A1 | GOOD CYTOMETRY PRACTICES: INSTRUMENT SETUP AND OPTIMIZATION | SALA 1 |

Moderators: Jordi Petriz (Barcelona, ES), Enrique O'Connor (Valencia, ES)

| 11.00-11.45 | | **Essential Considerations in Analyzing Rare Events** |

Andrea Cossarizza (Modena, IT)

| 11.45-12.30 | | **Quality Control and Standardization in Flow Cytometry** |

Lola Martínez (Madrid, ES)

| 11.00-12.30 | B1 | ADVANCED HEMATOLOGY-ONCOLOGY | AUDITORIO 1 |

Moderators: Andy Rawstron (Leeds, UK), Katherina Psarra (Athens, GR)

| 11.00-11.45 | | **Normal and malignant myeloid haematopoiesis** |

Sindhu Cherian (Seattle, WA, USA)

| 11.45-12.30 | | **AML MRD - ELN approach** |

Francis Lacombe (Bordeaux, FR)

11.00-12.30	C1 Group 1 *	CLINICAL DIAGNOSTIC CYTOMETRY	AUDITORIO 3a
		Moderator: Stefano Papa (Urbino, IT)	
11.00-11.45		**Clinical flow overview** Bruno Brando (Legnano, IT)	
11.45-12.30		**Pitfalls in clinical immunephenotyping** Frank Preijers (Nijmegen, NL)	

11.00-12.30	C1 Group 2 *	CLINICAL DIAGNOSTIC CYTOMETRY	AUDITORIO 3b
		Moderator: Claudio Ortolani (Urbino, IT)	
11.00-11.45		**Pitfalls in clinical immunephenotyping** Frank Preijers (Nijmegen, NL)	
11.45-12.30		**Clinical flow overview** Bruno Brando (Legnano, IT)	

11.00-12.30	D1	ADVANCED IMMUNOLOGY: BASIC CELL FUNCTIONS	SALA 4
		Moderators: Silvia Della Bella (Milan, IT), Florian Kern (Brighton, UK)	
11.00-11.45		**Analysis of T cells and iNKT cells in HIV infection** Sara De Biasi (Modena, IT)	
11.45-12.30		**Hallmarks of immune ageing: black sheep and red herrings** Florian Kern (Brighton, UK)	

12.30-13.30		LUNCH BREAK - EXHIBITION - POSTER VIEWING	

13.30-15.00	A2	GOOD CYTOMETRY PRACTICES: THE PREANALYTICAL PHASE	SALA 1
		Moderators: Jordi Petriz (Barcelona, ES), Enrique O'Connor (Valencia, ES)	
13.30-14.15		**Essential Issues in Reagent Selection** Graham Pockley (Sheffield, UK)	
14.15-15.00		**Essential Issues in Sample Preparation** Alfonso Blanco (Dublin, IE)	

13.30-15.00	B2	ADVANCED HEMATOLOGY-ONCOLOGY	AUDITORIO 1
		Moderators: Andy Rawstron (Leeds, UK), Katherina Psarra (Athens, GR)	
13.30-14.15		**B-lymphoproliferative disorders** Ton Langerak (Rotterdam, NL)	
14.15-15.00		**LPL, MGUS and Plasma cell disorders** Andries Bloem (Utrecht, NL)	

Clinical Diagnostic Cytometry: Maximum number of participants is 80, divided over 2 groups. The same programme will be run twice in parallel sessions; teachers will rotate.

13.30-15.00	C2 Group 1	**CLINICAL DIAGNOSTIC CYTOMETRY**	**AUDITORIO 3a**
		Moderator: Frank Preijers (Nijmegen, NL)	
13.30-14.15		**AML** Marie Christine Béné (Nantes, FR)	
14.15-15.00		**ALL and MPAL** Sindhu Cherian (Seattle, WA, USA)	

13.30-15.00	C2 Group 2	**CLINICAL DIAGNOSTIC CYTOMETRY**	**AUDITORIO 3b**
		Moderator: Claudio Ortolani (Urbino, IT)	
13.30-14.15		**GPI-anchor deficiency testing in paroxysmal nocturnal hemoglobinuria (PNH) and bone marrow failure syndromes following the 2017 ICCS/ESCCA consensus guidelines** Iuri Marinov (Prague, CZ)	
14.15-15.00		**MDS: normal versus aberrant, scoring systems** Dolores Subirá (Guadalajara, ES)	

13.30-15.00	D2	**ADVANCED IMMUNOLOGY**	**SALA 4**
		Moderators: Silvia Della Bella (Milan, IT), Florian Kern (Brighton, UK)	
13.30-14.15		**Antigen-specific T-cells as diagnostic sensors of tolerance, immunity and immune pathology** Petra Bacher (Berlin, DE)	
14.15-15.00		**Neutrophil primary deficiency disorders: how cytometry can contribute to the diagnosis** Genny Del Zotto (Genoa, IT)	

15.00-15.30		**COFFEE BREAK - EXHIBITION - POSTER VIEWING**	

15.30-16.00		**ESCCA INDUSTRIAL PARTNER PRESENTATION**	**AUDITORIO 1**

16.00-16.30	PLENARY 2	**BEST ABSTRACT PRESENTATIONS**	**AUDITORIO 1**
		Chairs: Bruno Brando (Legnano, IT), Stefano Papa (Urbino, IT)	
16.00-16.10	PLE-02-01	Best Abstract Award Nominee: **Flow cytometric measurement of absolute telomere length** Alexander Popov (Moscow, RU)	
16.10-16.20	PLE-02-02	Best Abstract Award Nominee: **Novel method for minimal residual disease detection by next generation flow cytometry, discriminating neuroblastoma from CD56 mesenchymal bone marrow cells** George Paterakis (Athens, GR)	
16.20-16.30	PLE-02-03	Best Abstract Award Nominee: **18-color flow cytometry assay for the immunophenotypic characterization of peripheral blood dendritic cell subsets** Silvia Della Bella (Milan, IT)	

16.30-17.15	PLENARY 3	**CHIMERIC ANTIGEN RECEPTOR (CAR) T CELLS**	**AUDITORIO 1**
		Chair: Silvia Della Bella (Milan, IT)	
16.30-17.15	PLE-03-01	**Retargeting of CAR NK and CAR T cells for cancer treatment** Stephan Klöss (Hannover, DE)	

17.30-18.30		**ESCCA GENERAL ASSEMBLY** Chair: Katherina Psarra (Athens, GR)	**SALA 1**

Friday 14 September 2018

09.00-10.30	A3	**GOOD CYTOMETRY PRACTICES: THE ANALYTICAL PHASE**	**SALA 1**
		Moderators: Jordi Petriz (Barcelona, ES), Enrique O'Connor (Valencia, ES)	
09.00-09.45		**Fluorescence Compensation: What is it and How is it Done** Alfonso Blanco (Dublin, IE)	
09.45-10.30		**Quality assurance for good practices and good practices for quality assurance in flow cytometry** Carmen Martín-Alonso (Valladolid, ES)	

09.00-10.30	B3	**ADVANCED HEMATOLOGY-ONCOLOGY**	**AUDITORIO 1**
		Moderators: Andy Rawstron (Leeds, UK), Katherina Psarra (Athens, GR)	
09.00-09.45		**EuroFlow approach to neoplasms of the myeloid lineage** Sergio Matarraz (Salamanca, ES)	
09.45-10.30		**MDS: analysis of the erythroid lineage** Marisa Westers (Amsterdam, NL)	

09.00-10.30	C3 Group 1	**CLINICAL DIAGNOSTIC CYTOMETRY**	**AUDITORIO 3a**
		Moderator: Frank Preijers (Nijmegen, NL)	
09.00-09.45		**B-LPD and therapy monitoring** Jan Philippé (Ghent, BE)	
09.45-10.30		**Phenotyping in cerebrospinal fluid / BAL / Pleura fluid** Ton Langerak (Rotterdam, NL)	

09.00-10.30	C3 Group 2	**CLINICAL DIAGNOSTIC CYTOMETRY**	**AUDITORIO 3b**
		Moderator: Claudio Ortolani (Urbino, IT)	
09.00-09.45		**Phenotyping in cerebrospinal fluid / BAL / Pleura fluid** Ton Langerak (Rotterdam, NL)	
09.45-10.30		**T-LPD** Paula Fernandez (Aarau, CH)	

09.00-10.30	D3	**ADVANCED IMMUNOLOGY**	**SALA 4**
		Moderators: Silvia Della Bella (Milan, IT), Florian Kern (Brighton, UK)	
09.00-09.45		**B cells in autoimmune diseases** Maria Leandro (London, UK)	
09.45-10.30		**Alterations of human B-cell differentiation: diagnosis and monitoring of primary antibody immunodeficiencies** Martin Pérez-Andrés (Salamanca, ES)	

10.30-11.15		**COFFEE BREAK - EXHIBITION - POSTER VIEWING**
10.40-11.10		**POSTER WALK 1 - IMMONOLOGY** Moderators: Silvia Della Bella (Milan, IT), Florian Kern (Brighton, UK)

11.15-11.45		**ESCCA INDUSTRIAL PARTNER PRESENTATION**	**AUDITORIO 1**

11.45-12.30	PLENARY 4	**ADVANCES IN CYTOMETRY**	**AUDITORIO 1**
		Chair: Jordi Petriz (Barcelona, ES)	
11.45-12.30	PLE-04-01	**Advances in spectral cytometry** J Paul Robinson (Lafayette, IN, USA)	
		Paul Robinson has been selected as a recipient of an ISAC Lecture Award	

12.30-13.00		**External Quality Assurance: Interlaboratory comparisons in flow cytometry and cell immunology. GECLID programme**	**AUDITORIO 1**

13.00-14.15		**LUNCH BREAK - EXHIBITION - POSTER VIEWING**
13.30-14.00		**POSTER WALK 2 - HEMATOLOGY** Moderators: Dolores Perez (Guadalajara, ES), Stefano Papa (Urbino, IT)

14.15-15.45	A4	**GOOD CYTOMETRY PRACTICES: EXPERIMENTAL DESIGN: POLYCHROMATIC IMMUNOPHENOTYPE**	**SALA 1**
		Moderators: Jordi Petriz (Barcelona, ES), Enrique O'Connor (Valencia, ES)	
14.15-15.00		**Good Cytometry Practices in Experimental Immunology** Catarina Martins (Lisbon, PT)	
15.00-15.45		**Good Cytometry Practices in Clinical Immuno-Hematology** Martin Pérez-Andrés (Salamanca, ES)	

14.15-15.45	B4	ADVANCED HEMATOLOGY-ONCOLOGY	AUDITORIO 1
		Moderators: Andy Rawstron (Leeds, UK), Katherina Psarra (Athens, GR)	
14.15-15.00		**Normal lymphopoiesis, normal T-cells or Immunodeficiencies** Paula Fernandez (Aarau, CH)	
15.00-15.45		**Immunophenotypic identification of Sézary cells in blood: utility in diagnosis, staging and treatment monitoring of Sézary Syndrome** Julia Almeida (Salamanca, ES)	

14.15-15.45	C4 Group 1	CLINICAL DIAGNOSTIC CYTOMETRY	AUDITORIO 3a
		Moderator: Frank Preijers (Nijmegen, NL)	
14.15-15.00		**GPI-anchor deficiency testing in paroxysmal nocturnal hemoglobinuria (PNH) and bone marrow failure syndromes following the 2017 ICCS/ESCCA consensus guidelines** Iuri Marinov (Prague, CZ)	
15.00-15.45		**MDS: normal versus aberrant, scoring systems** Dolores Subirá (Guadalajara, ES)	

14.15-15.45	C4 Group 2	CLINICAL DIAGNOSTIC CYTOMETRY	AUDITORIO 3b
		Moderator: Claudio Ortolani (Urbino, IT)	
14.15-15.00		**ALL and MPAL** Sindhu Cherian (Seattle, WA, USA)	
15.00-15.45		**AML** Marie Christine Béné (Nantes, FR)	

14.15-15.45	D4	ADVANCED IMMUNOLOGY	SALA 4
		Moderators: Silvia Della Bella (Milan, IT), Florian Kern (Brighton, UK)	
14.15-15.00		**Analysis of peripheral blood and tissue dendritic cells by flow cytometry** Silvia Della Bella (Milan, IT)	
15.00-15.45		**DCs and Extracellular vesicles: a very "particulated" cross-talk** Aurelia Rughetti (Rome, IT)	

| 15.45-16.15 | | COFFEE BREAK - EXHIBITION - POSTER VIEWING | |

16.15-17.45	PLENARY 5	**INTERESTING CASES WITH INTERACTIVE VOTING**	**AUDITORIO 1**

Chairs: Andy Rawstron (Leeds, UK), Frank Preijers (Nijmegen, NL)

Presenters:
Julia Almeida (Salamanca, ES), Sindhu Cherian (Seattle, WA, USA), Martin Pérez (Salamanca, ES), Claudio Ortolani (Urbino, IT), Maryalice Stetler-Stevenson (Bethesda, MD, USA), Marisa Westers (Amsterdam, NL)

In this session a series of clinical cases will be presented. Together with the presenter these cases will be actively reviewed by the delegates through interactive voting via your mobile phone.

17.45-17.50		**EXHIBITION RAFFLE PRIZE DRAWING**	**AUDITORIO 1**

18.00-19.00		**MAIN SPONSORS ACTIVITIES (see website)**

19.30-22.30		**CONFERENCE DINNER** *Pre-registration required; a fee applies.*
19.30-20.00		Bus transfer from the Conference Centre to Hotel Las Arenas
20.00-22.30		Pre-dinner drinks and Conference Dinner
22.30/23.00		Bus transfer to the Conference Centre

Saturday 15 September 2018

09.15-10.45	A5	**GOOD CYTOMETRY PRACTICES: EXPERIMENTAL DESIGN: FUNCTIONAL CYTOMETRY AND OTHER APPLICATIONS**	**SALA 1**

Moderators: Jordi Petriz (Barcelona, ES), Enrique O'Connor (Valencia, ES)

09.15-10.00		**Good Cytometry Practices in Cell Proliferation and Cell Death** Jordi Petriz (Barcelona, ES)
10.00-10.45		**Learning and publishing in Cytometry** Attila Tárnok (Leipzig, DE)

09.15-10.45	B5	**ADVANCED HEMATOLOGY-ONCOLOGY**	**AUDITORIO 1**

Moderators: Andy Rawstron (Leeds, UK), Katherina Psarra (Athens, GR)

09.15-10.00		**ALL** Brent Wood (Seattle, WA, USA)
10.00-10.45		**Uniform MRD reporting** Andy Rawstron (Leeds, UK)

09.15-10.45	C5 Group 1	**CLINICAL DIAGNOSTIC CYTOMETRY**	AUDITORIO 3a
		Moderator: Frank Preijers (Nijmegen, NL)	
09.15-10.00		**LPL, MGUS and Plasma cell disorders** Andries Bloem (Utrecht, NL)	
10.00-10.45		**T-LPD** Paula Fernandez (Aarau, CH)	

09.15-10.45	C5 Group 2	**CLINICAL DIAGNOSTIC CYTOMETRY**	AUDITORIO 3b
		Moderator: Claudio Ortolani (Urbino, IT)	
09.15-10.00		**B-LPD and therapy monitoring** Jan Philippé (Ghent, BE)	
10.00-10.45		**LPL, MGUS and Plasma cell disorders** Andries Bloem (Utrecht, NL)	

09.15-10.45	D5	**ADVANCED IMMUNOLOGY**	SALA 4
		Moderators: Silvia Della Bella (Milan, IT), Florian Kern (Brighton, UK)	
09.15-10.00		**T cell responses to Cas9 protein homologues** Michael Schmueck-Henneresse (Berlin, DE)	
10.00-10.45		**Anti-bacterial autophagy: how cells defend their cytosol** Keith Boyle (Cambridge, UK)	

10.45-11.30		**COFFEE BREAK - EXHIBITION - POSTER VIEWING**
10.55-11.25		**POSTER WALK 3 - SPOTLIGHT POSTERS** Moderators: Claudio Ortolani (Urbino, IT), Jordi Petriz (Barcelona, ES)

11.30-13.00	PLENARY 6	**JOINT ESCCA-SIC SESSION: THE FUTURE OF FLOW CYTOMETRY IN EUROPE**	AUDITORIO 1
		Chairs: Enrique O'Connor (Valencia, ES), Catarina Martins (Lisbon, PT)	
11.30-12.15	PLE-06-01	**The Future of FCM in Europe** Katherina Psarra (Athens, GR)	
12.15-13.00	PLE-06-02	**Flow cytometry Networking and interactions** José Carlos Segovia (Madrid, ES)	

13.00-14.00		**LUNCH BREAK - EXHIBITION - POSTER VIEWING**

14.00-14.10	**ESCCA AWARDS SESSION**	**AUDITORIO 1**
	Chairs: Enrique O'Connor (Valencia, ES), Paula Fernandez (Aarau, ES)	
	ESCCA Best Abstract Award (nominees see session PLE-02)	
	ESCCA Best Poster Award	
	Presentation of ESCCA 2019	

14.10-15.45	**PLENARY 7**	**JOINT SESSION ALL EDUCATION PROGRAMMES** (sessions A6 - B6 - C6- D6)	**AUDITORIO 1**
		Chairs: Enrique O'Connor (Valencia, ES), Paula Fernandez (Aarau, CH)	
14.10-14.55	PLE-07-01	**Keynote Lecture:** **Clinical Cytometry Diagnostics in the near future** Maria Arroz (Lisbon, PT)	
14.55-15.40	PLE-07-02	**Round table: At the shore of future cytometry** Moderators: Paula Fernandez, C. Ortolani	
		Round table discussion with Maryalice Stetler-Stevenson (Bethesda, MD, USA), Andy Rawstron (Leeds, UK), Julia Almeida (Salamanca, ES), Paula Fernandez (Aarau, CH), Maria Leandro (London, UK), Claudio Ortolani (Urbino, IT)	
15.40-15.45		**Closure**	