

PRE-CONFERENCE COURSE

WEDNESDAY 17 SEPTEMBER 2025

09.00-12.30 Spectral Cytometry in Clinical Practice: Applications and Insights

Course organisers: Mikaël Roussel and Thomas Matthes (on behalf of the French group CytHem)

Level: Beginners. Max. 30 places.

Spectral cytometry has been implemented in only a few diagnostic laboratories so far.

In this course, Prof. Roussel and Matthes will share their experience in designing spectral panels and running spectral cytometry for various clinical applications. They will provide examples of mid-size panels (10–20 colors) for diagnosis and MRD assessment of hematologic malignancies, as well as high-complexity panels (>20 parameters) for the monitoring of immune cell populations.

The supporting materials will be kindly provided by BD, Beckman Coulter and Cytex. The Scientific and Organising Committees have determined the content of this workshop and warrant its scientific independence.

09:00-9:15	Introduction	Mikaël Roussel, Rennes, France Thomas Matthes, Geneva, Switzerland
09:15-9:55	Spectral cytometry concept & panel design	Thomas Matthes, Geneva, Switzerland
9:55-10:45	MRD in ALL: from current standard to a 14-color spectral assay in a clinical trial (including 20 min for simulation of panel set-up and acquisition on SpectroFlo CLC)	Mikaël Roussel, Rennes, France
10:45-11:00	Testing a 20-color panel for AML and MDS analysis	Thomas Matthes, Geneva, Switzerland
11:00-11:30	<i>Coffee break</i>	
11:30-11:50	Spectral meets modular: A flexible approach for the transition from conventional to spectral flow cytometry	
11:50-12:10	Designing with impact: tips for spectral cytometry in clinical research	
12:10-12:30	Q&A on spectral cytometry applications in clinical practice	
<i>Lunch on your own</i>		
14.00	Start ESCCA Conference	