

PRE-CONFERENCE WORKSHOP**WEDNESDAY 17 SEPTEMBER 2025****09.00-12.30 WS1: How to use flow-cytometry to support MDS diagnosis****Organisers** Marisa Westers (Amsterdam UMC, Amsterdam, The Netherlands) and Alan Dunlop (Royal Marsden Hospital, London, UK)**Level:** **intermediate level flow cytometrists** max. 30 participants

Flow cytometry is a recommended tool in the integrated diagnostics of myelodysplastic syndromes. Despite the broad application of this technique, immunophenotyping of suspected MDS is considered laborious, costly and complicated. In this workshop, we will shortly introduce possible immunophenotypic aberrations, and discuss currently validated scoring systems. During the workshop cases will be discussed, and you will analyse fcs files of normal and MDS cases. Together, we will discuss results. In addition, we will discuss reporting of results. Challenges encountered by participants may be discussed as well. It is advised to bring a laptop with analysis software to actively participate in the workshop.

09:00-10:00 Welcome

09:00-09:30 Introduction to diagnosis of MDS and how flow cytometry fits into an integrated diagnosis. Overview of scoring systems used by flow cytometry in MDS diagnostics

09:30-10:15 Practical session - observing analysis of normal bone marrow and MDS sample using data analysis software

10:15-10:50 Hands on analysis session for participants. Analysing normal BM sample and suspected MDS sample

10:50-11:00 Discuss practical sessions and feedback on challenges/common pitfalls

11:00-11:30 *Coffee break*

11:30-12:00 Continue hands-on analysis of suspected cases

12:00-12:15 Discussion around findings identified by participants

12:15-12:30 How to build a report and communicate findings

Lunch on your own

14.00 Start ESCCA Conference