

PRE-CONFERENCE WORKSHOP

WEDNESDAY 27 SEPTEMBER 2023

09.00-12.30 Practical tips and tricks for optimizing instruments and experiments

Workshop co-organisers: Alfonso Blanco, University College Dublin; Florian Kern, Brighton and Sussex Medical School

Level: Basic-Intermediate. Max. 40 places.

How confident are you with your flow cytometry data? Are you sure you can reproduce your assay in a different lab? Are you sure that the data that you obtain with your flow cytometer cannot be improved?

There are many variables when we are setting up a flow cytometer which can be optimized to improve the quality of your data and its reproducibility, such as panel design, titration of the antibodies, the fluidics of the instrument and or the adjustment of voltages/gains in our flow cytometers. In the same way that a Titration assay, the voltration/gaintration of our instruments will help us to properly distinguish our populations but also to perform a more accurate analysis. These could also help us to improve our compensation matrixes. Therefore, understanding why and how to perform the titration of our reagents as well as a voltration/gaintration of our instruments is a key element for optimising our assays.

During this theoretical/practical workshop, we will cover these aspects and participants will see in real samples the big differences in the data between an optimized and a non-optimized assay/instrument.

09:00-09:15	Opening and Introduction	Alfonso Blanco, University College Dublin; Florian Kern, Brighton and Sussex Medical School
9:15 -10:30	Lecture: How to run flow assay correctly	Alfonso Blanco, University College Dublin
10:30-11:00	<i>Coffee break</i>	
10:30-13:00	Hands-on: Optimization of your dyes (titration), your instruments (Voltration/Gaintration) and your compensation	Alfonso Blanco, University College Dublin
<i>Lunch on your own</i>		
14.00	Start ESCCA Conference	