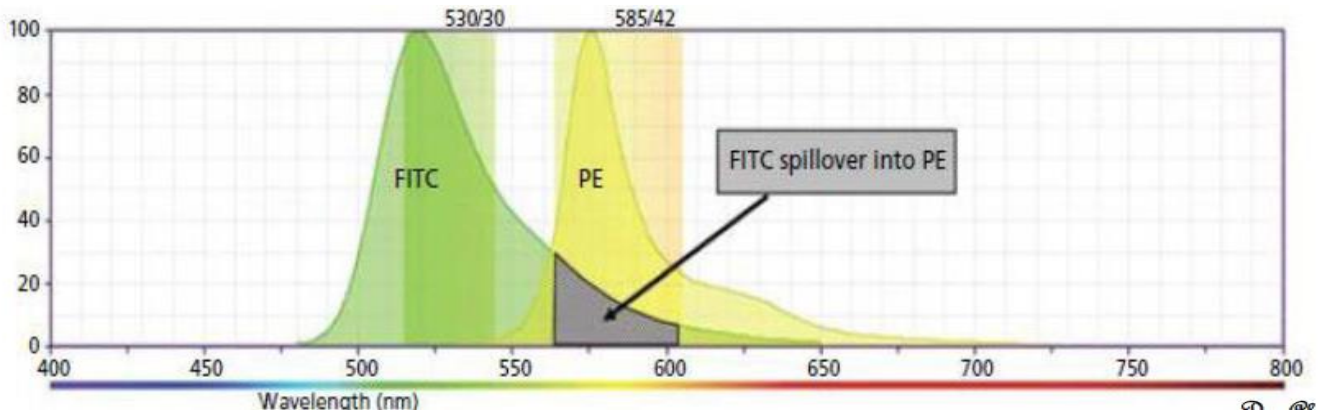




The 2<sup>nd</sup> International Joint Conference of Al-Azhar Faculties of Medicine in Cairo(Egypt)



## 2<sup>nd</sup> Course on Basics of Flow Cytometry

By: Clinical Pathology Department, Faculty of Medicine, Al-Azhar University

*In collaboration with*

Dr. Claude Lambert (MD, PhD) (Saint-Etienne Univ. Hospital, IFCC, France)

*Under the patronage of*

Prof. Dr. Mahmoud Seddik, Vice President of Al-Azhar University for Post-Graduate Studies and Research

Prof. Dr. Hesham Farhoud, Dean of Faculty of Medicine (Girls), Al-Azhar University, Cairo

Prof. Dr. Hanaa El Ebeisy, Deputy of Faculty of Medicine for Postgraduate and Research Affairs

Prof. Dr. Eman Elshal, Deputy of Faculty of Medicine for Education and Student Affairs

Prof. Dr. Aml Abdelaeem, Head of Clinical Path. Dept., Faculty of Medicine (Girls), Al-Azhar Univ., Cairo

### Day 1: 8<sup>th</sup> December---> Technical Aspects of Flow Cytometry

08:30-10:00	Principle of Flow cytometry	Reham Hammad (Al-Azhar Uni.)
10:00-11:00	Sample preparation	Claude Lambert (Saint-Etienne Uni., France)
11:30-12:30	Fluorochromes and Compensation	Doaa Aly (Al-Azhar Uni.)
01:00-01:45	Basic Data analysis	Samar Mohammed (Al-Azhar Uni.)
01:45-02:30	Quantitative flow cytometry	Claude Lambert (Saint-Etienne Uni., France)
02:30-03:00	Cell cycle and Apoptosis	Randa Osman (NCI, Egypt)
03:00-03.30	Phenotyping of T cells	Claude Lambert (Saint-Etienne Uni., France)
03:30-05:00	Analysis of cases	Claude Lambert (Saint-Etienne Uni., France)



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**Day 2: 9<sup>th</sup> December---** Introduction to Data Analysis in Haematology

09:00-10:00	<b>Setting panels and optimization</b>	Claude Lambert (Saint-Etienne Uni., France)
10:00-11:00	<b>Introduction to phenotyping of acute Leukaemia</b>	<b>Reham Hammad (Al-Azhar Uni.)</b>
11:30-12:00	<b>Introduction to phenotyping of lymphoproliferative disorders</b>	<b>Eman Kandil (NCI, Egypt)</b>
12:30-01:00	<b>Prognostic Factors of Acute Myeloid Leukaemia in Paediatric Age group</b>	<b>Mahmoud Hammad (NCI, Egypt)</b>
01:00-06:00	<b>Wet Lab Hands On; sample staining, acquiring samples, gating and analyzing data</b> Claude Lambert, Reham Hammad, Samar Mohammed, Doaa Aly & Ibrahim Ali (Flow Lab technician)	

**\*Hands on Program**

1. Protocol of Direct Extracellular Staining; CD3FITC/CD16+56PE/CD45PerCP/CD19AP
2. Protocol for Direct Intercellular Staining; MPOFITC/CD45PerCP
3. Gating & Data analysis
4. Commenting on mean or median florescence intensity [MFI]
5. RBCs & PLTs related experiments
6. Demonstration of leukaemia protocols

**Workshop Coordinator: and Organizer; Dr. Reham Hammad**, Ass. Prof., Haematology, Clinical Pathology, Faculty of Medicine (Girls), Al-Azhar University, Cairo. [Reham.hammad@azhar.edu.eg](mailto:Reham.hammad@azhar.edu.eg) . Tel: 01092837188.

**Workshop language:** English

**Target audience:** Beginners in Flow practice (20 Hands off & 10 Hands on participants per day max.)

**Workshop fee** **700LE** for hands off. **500LE** for wet lab hands on Total course fee is **1200LE**

**Fee includes Coffee break, Lunch and Certificate.**

**Workshop Objectives:** by end of the work shop we expect participants to;

- 1- Understand basics of Flow cytometry;
- 2- Be able to start analyzing simple data;
- 3- Design their own experiments;
- 4-Be aware of possible artefacts.

**P.S**

Participants in wet lab Hands on are kindly asked to bring their white coats.