



4th International Course on Basics of Flow Cytometry

Clinical Pathology Department, Alzahraa Hospital. Faculty of Medicine (For Girls), Al-Azhar University

(3rd -5th of December, 2023)

In collaboration with

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

Under the patronage of

Prof. Salama Dawood, President of Al-Azhar Univ.

Prof. Mahmoud Seddik, Vice President of Al-Azhar Univ, for Postgraduates

Prof. Hanaa El Ebeisy, Dean of Faculty of Medicine (Girls), Al-Azhar Univ., Cairo

Under the supervision of

Prof. Sawsan Abdelsabour, Deputy of Faculty of Medicine Postgraduate and Research affairs

Prof. Amal Hegazy, Deputy of Faculty of Medicine for Education and Student Affairs

Prof. Ehab Abdo, Executive manager of Al-zahraa Univ. Hospital

Prof. Amal Abdelaleem, Head of Clinical Path. Dept., Al-Azhar Univ., Cairo

Workshop Director

Reham Hammad, Ass. Prof. Clinical Pathology, Al-Azhar Univ.

BM-Egypt



Day 1: 3rd of December---> Technical Aspects of Flow Cytometry

Time	Topic	Lecturer
08:45-09:00	Opening ceremony and welcome speech	
09:00-10:00	Basics of Flow cytometry	Reham Hammad (Al-Azhar Univ.)
10:00-11:00	Sample preparation	Claude Lambert (Saint-Etienne Uni., France)
11:00-12:00	Fluorochromes and Compensation	Doaa Aly (Al-Azhar Univ.)
12:00-12:30	Basic Data analysis	Samar Mohammed (Al-Azhar Univ.)
12:30-01:00	Break	
01:00-01:45	Cell cycle and Apoptosis	Abdel-Aziz Zidan (Damanhur, Univ)
01:45-02:30	Bioinformatics and flow cytometry data	Nadia Hamdy (Ain Shams Univ.)
02:30-03:15	Vertual Labs in Flowcytometry	Khadija El-Bedweihy (Owner of PraxiLabs)
03:15-4:00	Flowcytometry experiment and animal models	Fatma Alzahraa Abd El Hakam (Al-Azhar Univ.)



Day 2: 4th of December ---> Introduction to Data Analysis in Haematology

Time	Topic	Lecturer
09:30-10:30	Setting panels and optimization	Claude Lambert (Saint-Etienne Uni., France)
10:30-11:30	Immunophenotyping	Reham Hammad (Al-Azhar Univ.)
11:30-12:15	Introduction to phenotyping of lymphoproliferative disorders	Eman Kandil (NCI, Egypt)
12:15-12:45	Break	
12:45-01:30	Introduction to phenotyping of acute Leukaemia	Randa Osman (NCI, Egypt)
01:30-02:00	Plasma cell disorders	Hamdia Ezzat (Al-Azhar Univ.)
02:00-02:30	Quantitative Flow cytometry	Claude Lambert (Saint-Etienne Uni., France)
02:30-03:30	Case presentations	Asmaa Ismael (Al-Azhar Univ.) Aya Ali (Al-Azhar Univ.) Esraa Ayad (Al-Azhar Univ.)



Day 3: 5th of December --->Wet Lab Agenda

Lecturer	Topic	
Claude Lambert	Practical analysis of data using Kaluza soft ware	10:00-12:00
Reham Hammad, Samar Mohammed, Doaa Aly & Ibrahim Ali	Protocol of Direct Extracellular Staining; CD3FITC/CD19PE/CD45PCy5.5/CD56APC	12:00-03:00
	Protocol for Direct Intercellular Staining; MPOFITC/CD45PCy5.5	
	Gating & Data analysis	
	Detection of florescence intensity	
	RBCs & PLTs related experiments:CD41FITC/ CD235aPE	

Target audience: Beginners in Flow practice

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

- 1-Identify basics of Flow cytometry
- 2- Analyze simple data
- 3- Design their own experiments
- 4-Define possible artefacts

P.S

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



Workshop Sponsoring:

International federation of Clinical Chemistry and Laboratory Medicine

Workshop Moderator:

Prof. Dr. Mona Alrayes Prof. Clinical Pathology, Faculty of Medicine

Workshop organizers

Prof. Hamdia Ezzat (Al-Azhar Uni.)

Dr. Doaa Aly (Al-Azhar Uni.)

Dr. Samar Mohammed (Al-Azhar Uni.)

Dr. Aya Ali

Dr. Esraa Ayad

Dr. Esraa Fawzy

Dr. Ragia Hassanin

Dr. Aya Damanhoury

Technical support

BM-Egypt company

Workshop fees: Total course fees is 2000LE [1200LE for hands off course & 800 LE for hands on wet lab]

Workshop Registration: Contact, Dr. Reham Hammad, E mail: Reham.hammad@azhar.edu.eg.

Tel: 01092837188.

BM-Egypt