



5th International Course on Basics of Flow Cytometry

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

(3rd-6th of November, 2024)

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. Sabila Gomaa, 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

Prof. Reham Hammad, Clinical Pathology, Faculty of Medicine for Girls, Al-Azhar Univ.



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

Time	Topic	Lecturer
08:45-09:15	Opening Ceremony and welcome speech	
09:15-10:15	Basics of Flow cytometry and light scattering	Prof. Reham Hammad (Al-Azhar Univ.)
10:15-11:00	Sample Preparation	Dr. Claude Lambert (Saint-Etienne Uni., France)
11:00-12:00	Fluorochromes and Compensation	Dr. Doaa Aly (Al-Azhar Univ.)
12:00-12:30	Data analysis	Dr. Samar Mohammed (Al-Azhar Univ.)
12:30-01:00	Break	
01:00-01:45	Trouble shooting	Prof. Eman Kandeel (NCI, Egypt)
01:45-02:30	RBCs and PLTs experiments	Prof. Reham Hammad & Aya Damanhoury (Al-Azhar Univ.)
02:30-3:00	Bioinformatics and flow cytometry data	Prof. Nadia Hamdy (Ain Shams Univ.)
03:00-03:30	Flowcytometry experiment and Animal models	Ass. Prof. Fatma Alzahraa Abd El Hakam (Al-Azhar Univ.)



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

Time	Topic	Lecturer
09:30-10:30	Setting panels and optimization	Dr. Claude Lambert (Saint-Etienne Uni., France)
10:00-11:30	Immunophenotyping	Prof. Reham Hammad (Al-Azhar Univ.)
11:30-12:15	Introduction to phenotyping of lymphoproliferative disorders	Prof. Eman Kandeel (NCI, Egypt)
12:15-12:45		Break
12:45-01:30	Flowcytometry in Paroxysmal nocturnal Hemoglobinuria, the gold standard	Prof. Soha Raouf Youssef (Ain Shams Univ.)
01:30-02:00	Introduction to phenotyping of acute Leukaemia	Ass. Prof. Randa Osman (NCI, Egypt)
02:30-03:00	Multiple Myeloma	Prof. Hamdia Ezzat (Al-Azhar Univ.)
03:00-03:30	BCR-ABL in heamatological malignacies	Ass. Prof. Mona Eldosoky (Al-Azhar Univ.)



Day 3: 5th of November---> Introduction to Data Analysis in Immunology

Time	Topic	Lecturer
09:00-10:00	Flow cytometry Panel for Primary Immunodeficiency	Prof. Soha Younis (Suiz Canal Univ. Egypt)
10:00-10:45	Dendritic cells experiments	Dr. Claude Lambert (Saint-Etienne Uni., France)
10:45-11:15	Phagocytosis experiments	Prof. Reham Hammad (Al-Azhar Univ.)
11:15-12:00	flow cytometry and Allergy	Prof. Ali Sobhi (Al-Azhar Univ.)
12:00-12:30	Break	
12:30-01:30	Immunophenotyping of Myeloid derived suppressor cells by flow cytometry	Prof. Mohamed Labib Salem (Tanta Univ.)
01:30--02:00	Basophil Activation experiments	Dr. Claude Lambert (Saint-Etienne Uni., France)
02:00-02:45	Principles of Sorting of immune cells	Prof. Abeer Badr (Cairo Univ. Egypt)
02:45-03:00	BM-Egypt and Interacellular cytokines	BM -Egypt
03:00-03:15	Flow solutions by Sysmex	Sysmex
03:15-03:45	Immune Modulation Certificate funded by ERASMUS+	Ass. Prof. Alya Mashaal (Al-Azhar Univ.)



Day 4: 6th of November--->Wet Lab Agenda

Lecturer	Topic	
Dr. Claude Lambert	Practical analysis of data using Kaluza soft ware	10:00-01:00
Prof. Reham Hammad, Dr.Samar Mohammed, Dr. Doaa Aly & Ibrahim Ali	Sample preparation and Extracellular Staining; CD3FITC/CD19PE/CD45PCy5.5/CD56APC	01:30-04:00
	Protocol for Intercellular Staining; MPOFITC/CD45PCy5.5	
	Gating & Data analysis	

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 Moderator

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

Workshop Sponsoring



Workshop organizers

Prof. Hamdia Ezzat (Al-Azhar Uni.)

Dr. Doaa Aly (Al-Azhar Uni.)

Dr. Samar Mohammed (Al-Azhar Uni.)

Ass. Prof. Fatma Alzahraa Abd El Hakam

Dr. Aya Damanhoury

Dr. Aya Ali

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Dr. Ragia Hassanin

Technical support

BM-Egypt company

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Workshop fees: 2000 LE

