

# **6th International Course on Basics of Flow Cytometry** **Basic Concepts and Clinical Applications**

**(7th-9th of December , 2025)**

**Clinical Pathology Department, Faculty of Medicine , Al-Azhar University**

**In collaboration with**

**International Federation of Clinical Chemistry and Laboratory Medicine (IFCC)**

**Dr. Evangelos Ntrivalas**

**IFCC, Chair of Flow Cytometry Working Group, USA**



**Dr. Claude Lambert**

**IFCC, Flow Cytometry Working Group, France**

**Dr. Anis Larbi**

**Beckman Coulter, Life Sciences, France**



**Dr. Reham Hammad**

**Head of Flow cytometry Lab & Workshop organizer, Egypt**



**Alzahraa University Hospital**

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**Day 1: 7th of December---> General Aspects of Flow Cytometry**

Time	Topic	Lecturer
09:00-09:30	Opening ceremony and welcome speech	
09:30-10:15	Flow cytometry basics guide	Prof. Reham Hammad (Al-Azhar Univ.)
10:15-11:00	Fluorochromes, compensation & sample preparation	Prof. Doaa Aly (Al-Azhar Univ.)
11:00-11:45	Setting panels and Optimization	Dr. Claude Lambert (IFCC., France)
11:45-12:30	Basic Data analysis	Dr. Samar Mohammed (Al-Azhar Univ.)
12:30-01:00	Break	
01:00-01:45	Functional Flow cytometric assays for infectious disease monitoring	Dr. Evangelos Ntrivalas (IFCC., USA)
01:45-02:30	Standardization and reproducibility in flow cytometry	Dr. Anis Larbi (Beckman Coulter, France)
02:30-03:00	Detecting single cell cytokine production	Dr. Claude Lambert (IFCC., France)
03:00-03:30	Using flow cytometry to monitor circulating tumor cells	Prof. Mohamed Labib (Tanta Univ.)
03:30-04:00	Advancing flow cytometry in clinical practice of immune function assessment	Dr. Nessma Gad (Sysmex)

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Day 2: 8th of December---> **Introduction to Clinical assays**

Time	Topic	Lecturer
09:30 -10:00	Immunophenotyping of normal Bone marrow	Prof. Reham Hammad (Al-Azhar Univ.)
10:00-10:30	Introduction to phenotyping of lymphoproliferative disorders	Prof. Eman Kandeel (NCI, Egypt)
10:30-11:15	Introduction to phenotyping of acute Leukaemia	Prof. Randa Osman (NCI, Egypt)
11:15-11:45	Flow cytometry updates in Myelodysplastic syndrome	Prof. Soha Youssef (Ain Shams, Univ.)
11:45-12:30	Flow cytometric assays for immune monitoring following hematopoietic stem cell transplant	Dr. Evangelos Ntrivalas (IFCC., USA)
12:30-12:45	Break	
12:45-01:30	Flow cytometry and immunology	Dr. Anis Larbi (Beckman Coulter, France)
01:30-02:15	Designing an experiment to diagnose inborn errors of Immunity	Prof. Safa Meshaal (Kasr Al-Ainy, Cairo Univ. Egypt)
02:15-02:45	Typing HLA b27 by Flow cytometry	Dr. Claude Lambert (IFCC., France)
02:45-03:30	Flow cytpmetry in nonmalignant RBCs disorders	Dr. Samar Mohammed (Al-Azhar Univ.)
03:30-04:00	Platelet disorders detection by Flow cytometry	Dr. Doaa Aly (Al-Azhar Univ.)
04-00-04:30	Immune Modulation Certificate (IMCert)	Dr. Alya Mashaal (Al-Azhar Univ.)



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Day 3: 9th of December---> **Practical analysis of data using Kaluza software & cases**

Lecturer	Topic	
Dr. Claude Lambert Dr. Reham Hammad Dr. Doaa Aly Dr. Samar Mohammed Mr. Ibrahim Aly Bm Egypt	<b>Introduction to Kaluza soft ware</b> <ul style="list-style-type: none"> <li>• Practical gating strategies and data analysis</li> <li>• Lymphocytes subsets</li> <li>• Compensation</li> <li>• Tips and tricks</li> </ul>	10:00-01:00
Dr. Osama Hassan Dr. Aya Ali Dr. Reem Awany	<b>Cases diagnosis step by step</b> <ul style="list-style-type: none"> <li>• Chronic Leukaemia</li> <li>• Acute Myeloid Leukemia</li> <li>• Acute B lymphoblastic Leukaemia</li> <li>• Acute T lymphoblastic Leukaemia</li> </ul>	01:00-03:00

**Target audience:** Beginners to professionals in Flow practice

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

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

**P.S**

Participants are kindly asked to bring their laptops

**Fees: 2500 LE**

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### **Workshop Moderator :-**

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

### **Workshop Sponsoring and Technical support :-**



### **Workshop organizers :-**

**Prof. Hamdia Ezzat (Al-Azhar Uni.)**

**Dr. Doaa Aly (Al-Azhar Uni.)**

**Dr. Samar Mohammed (Al-Azhar Uni.)**

**Dr. Aya Ali (Al-Azhar Uni.)**

**Dr. Esraa Ayad (Al-Azhar Uni.)**

### **Designes :-**



**Scan QR code for registration**

**Workshop Registration: Dr. Reham Hammad,**

**E mail: Reham.hammad@azhar.edu.eg. Tel: 01092837188**

 **Alzahraa University Hospital**