Winter school of Cell Analysis in Immunology

Geneva
Switzerland
9th-13th March 2020

Organizers :
Thomas MATTHES (Geneva)
Claude LAMBERT (Saint-Etienne)

Typing & counting
Lymphocytes, monocytes & dendritic cells
Maturation pathways, compartments
Recent Thymic Emigrants and ILCs

Functional tests
Activation, Proliferation
Intracellular Cytokines
Cytotoxicity, apoptosis
Phagocytosis, ROS production
Degranulation

Quantitative cytometry
ImageStream; Mass Cytometry
Multidimensional data - analysis

Monitoring diseases
Immunodeficiencies
Allergy, Sepsis
Lupus, arthritis

FLOW CYTOMETRY
Advanced level

for
Immunologists
Researchers
Clinical Biologists
PhD students
Lab assistants
R&D pharma

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Registration: www.cytometryschool.ch

Preliminary program
(will be updated regularly)

Faculty:
Antonio COSMA (CEA Paris, France)
Ulrich SALZER (Freiburg, Germany)
Azzedine TAHIAT (Alger, Algeria)
Fouad SEGHROUCHNI (Rabat, Morocco)
Frederic VELY (Marseille, France)
Anne WILSON (Lausanne, Switzerland)
Peter and Camilla JANDUS (Geneva, Switzerland)
Stéphanie Hugues (Geneva, Switzerland)
Claude Lambert (Saint-Etienne, France)
Silvia della Bella (Milano, Italiy)
Thomas Matthes (Geneva, Switzerland)

General review on applications of immunology analysis by flow cytometry
B-cells lymphopoiesis, development and pathology
T cell phenotypes and subsets
Assessment of T cell activation, proliferation and function (antigen specific response)
Innate Lymphoid Cells
Myeloid lineage, myelopoiesis and normal maturation pathways
Phagocytosis, monitoring granulocyte reactivity and ROS production
Human monocyte and dendritic cell populations
Immunopathology and Sepsis, Immunoparalysis
Hypersensitivity and Basophil degranulation tests
Primary immunodeficiencies
Panel design
Quality Assurance and standardisation
ImageStream; Mass cytometry
High-dimensional data analysis