

Winterschool of Cell Analysis in Immunology

SWISS FLOW CYTOMETRY SCHOOL, GENEVA
MARCH 6TH – 10TH, 2023

FLOW CYTOMETRY - Advanced Level

Immunophenotyping

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
Multi-dimensional data analysis

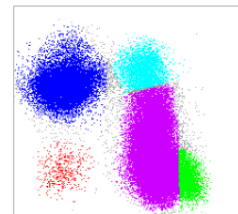
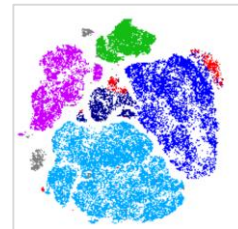
Monitoring diseases

Immunodeficiencies
Allergy, Sepsis
Lupus, Arthritis

Panel design

Spectral cytometry

Mass cytometry



Target audience:

Immunologists
Researchers
Clinical biologists
PhD students
Lab assistants
R&D pharma

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Preliminary program

General review on flow cytometry in immunology applications

Multicolor panel design

Spectral cytometry

Mass cytometry

B-cells lymphopoiesis, development and pathology

T cell phenotypes and subsets

Assessment of T cell activation, proliferation and function

Myeloid lineage, myelopoiesis and normal maturation pathways

Phagocytosis, monitoring granulocyte reactivity and ROS production

Innate Lymphoid Cells

Human monocyte and dendritic cell populations

Immunopathology and sepsis, immunoparalysis

Hypersensitivity and basophil degranulation tests

Primary immunodeficiencies

Multi-dimensional data analysis

This course is supported by

