

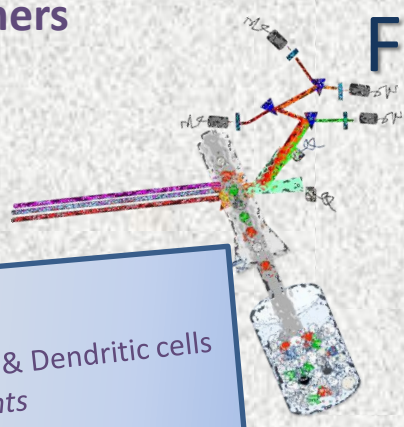
Winter school of Cell Analysis in Immunology

France
University of Saint-Etienne
Approved for continuous medical education

Organizers : *Claude LAMBERT (F)*
Ulrich SACK (D)

5 days, In March

international teachers
Advanced level



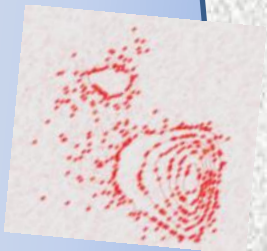
FLOW CYTOMETRY

- Basics in Cellular Immunology
- FCM Techniques
- Protocol design & settings
- Data analysis & interpretation
- Research and Diagnosis
- Good practice, Accreditation

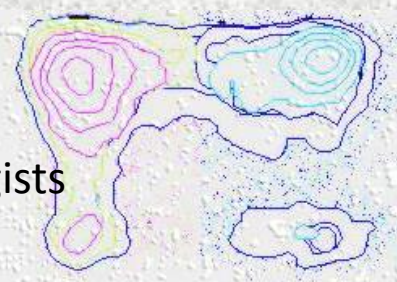
Typing & counting
Lymphocytes, monocytes & Dendritic cells
maturation, compartments
recent thymic emigrants

Functional tests
Activation, Proliferation
Intracellular Cytokines
Cytotoxicity
Phagocytosis, Bactericidy
Degranulation

Quantitative cytometry
imageflow; cytoff
→ **Monitoring**
Immunodeficiencies,
Allergy, Sepsis,
Vaccine, Biotherapy,
Immunopathology



for
Researchers
Clinical Biologists
PhD students
Technologists
R&D pharma



Information: www.cytima.org
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Faculties :

Anne-Emmanuelle BERGER (Saint-Etienne)
Antonio COSMA (CEA Paris)
Iyadh DOUAGI (Stokholm)
Anne-Catherine LHOUMEAU (Marseille)
Guillaume MONNERET (CHU, Lyon)
Ulrich SACK (Leipzig)
Ulrich SALZER (Freiburg)
Fouad SEGHROUCHNI (Rabat Morocco)
Jean Louis STEPHAN (Immuno-pediatre, Saint-Etienne)
Frederic VELY (Marseille)
Fabienne VENET (CHU, Lyon)
Marc VOCANSON (INSERM Lyon)
Livine DUBAN (Meck)

General review on applications of immunology analysis by flow cytometry
B-cells lymphopoiesis, development and pathology
T cell phenotypes and subsets Assays for the assessment of T cell activation and function (Antigen specific response)
Innate Lymphoid Cells
Myeloid lineage, myelopoiesis
Phagocytosis Bactericidy
Flow cytometric analysis of human peripheral blood dendritic cells
Immunopathology and Sepsis lymphocytes
Immunoparalysis, Monitoring Granulocyte reactivity
Hypersensitivity and Basophil degranulation tests
Primary immunodeficiencies in clinic
Lymphopoiesis T , disorders, Primary immunodeficiencies
T cell multifunctional functional testing and proliferation
T cell hypersensitivity
Myeloid lineage clustering using Mass cytometry
Flow-image analysis, synapse, proliferation

Reaching from the International airport Lyon Saint-Exupery;
Paris Airport Roissy Charles de Gaulle.

From the airport to Saint-Etienne:

At the airport, take the Tram to Lyon, Part-Dieu train station:
Tram leaves every 20 minutes, from 4.30 - 23.40 hrs.
Transfer time is approximately 35 minutes.
Tickets can be bought train station.
A one way ticket costs 13 euro.

For more information,

<http://www.lyonaeroports.com/Acces-et-parking/Venir-a-partir-de-l-aeroport/Par-Tram-express>