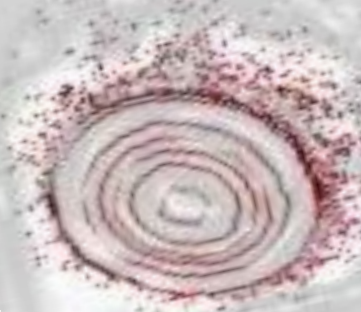


Winter school of Cell Analysis in Immunology



France
University of Saint-Etienne
Approved for continuous medical education

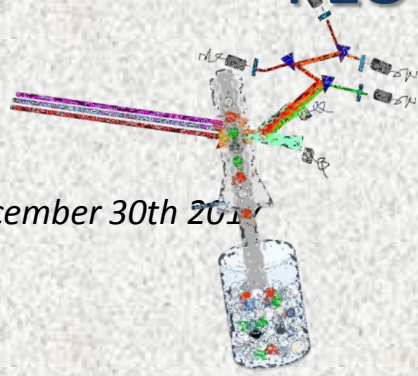
5 days,
4-8 february 2019,
international teachers

Advanced level

Early registration: before December 30th 2017



FLOW CYTOMETRY



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

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

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

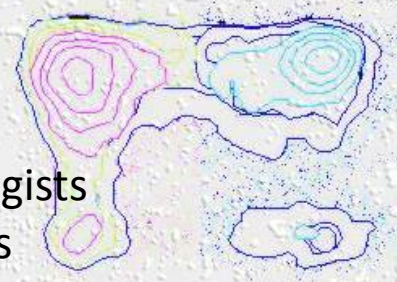
Functional tests
Activation, Proliferation
Intracellular Cytokines
Cytotoxicity
Phagocytosis, Bactericidy
Degranulation

Quantitative cytometry
New technologies
imageflow: cytoff, Data analysis

→ **Monitoring**
Immunodeficiencies,
Allergy, Sepsis,
Vaccine, Biotherapy,
Immunopathology



for
Researchers
Clinical Biologists
PhD students
Technologists
R&D pharma



Information:
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<https://www.chromocyte.com/>



Immunology

B320

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	4th february Monday	5th february Tuesday	6th february Wednesday	7th february Thursday	8th february Friday
8:30-9:30	9:00 Welcome	T cell phenotypes and subsets C LAMBERT	dosages multiples cytokines	Primary immunodeficiencies in clinic Jean Louis STEPHAN	Lymphopoesse T Ulrich SACK (Leipzig)
9:30-10:30	General review on applications	Hypersensibility, Basophilis Anne Emmanuelle BERGER (St	Monitoring Granulocyte reactivity Guillaume MONNERET (Lyon)	Detection of PID Fouad SEGHRUCHNI (Rabat Morocco)	T cell functional testing Ivadh DOUAGI (Stokholm)
11:00 - 12:00	B-cells Development and differentiation Ulrich SALZER (Freiburg)	Hypersensibilité retardéen T cell : skin and hypersensitivity	Immunopathology and Sepsis	In vitro differentiation of human dendritic cells Helena PAIDASSI	Cytoplasmic Cytokines data analysis
12:00 - 13:00	Ulrich SALZER (Freiburg) confirmé	Marc VANCANSON Lyon	Fabienne VENET (Lyon)	Flow cytometric analysis of human peripheral blood dendritic cells	Cytoplasmic Cytokines
14:00:00-15:00	Practicals on B Cells analysis (Imd)	TP tests PMA Ionomycine preparation	Myelopoiesis (Thomas MATTHES Geneva)	Innate Lymphoid Cells	Primary immunodeficiencies Ulrich SACK (Leipzig)
15:00-16:00	Practicals on B Cells analysis (Imd)	Phagocytosis Bactericidy Fouad SEGHRUCHNI (Rabat Morocco)	Myeloid lineage clustering using Mass cytometry Antonio COSMA (Paris)	NK cytotoxicity Frederic VELV (Marseille)	Standardisation, Quality controls Ulrich SACH (Leipzig)
16:30 - 17:30	Assays for the assessment of T cell activation	Basophil Activation Test	Myeloid lineage clustering using Mass cytometry Antonio COSMA (Paris)	T cell Activation test (CFSE?)	conclusions and Feed back
17:30-18:30	Practicals T cell activation	Phagocytosis and Bactericidy	Immune synapse : Image flow cytometry Livine DUBAN (Millipore)	T cell multicolor labelling : optimisation Jacques VIGNE Beckman Coulter)	
	Welcome party International tastes			Group dinner cheese	