

# Advanced Cytometry: Applications in Immunology

## In Saint-Etienne France 1 to 6 February 2015

### COURSE CONTENT: IMMUNO-MONITORING

- B cell, T cells, NK Cells, Monocytes,
- Normal development, phenotypes, pathology
- Phagocytosis, Cytotoxicity, T cell activation / proliferation
- Allergy, Immunodeficiencies, cytokines

### TIMING:

The program starts on Monday morning and finish on Friday end of afternoon.

### TENTATIVE PROGRAM (subject to adaptation according to speaker availability)

	1 february	2 february	3 february	4 february	5 february
	Monday	Tuesday	Wednesday	Thursday	Friday
8:30-9:30	Welcome	Lymphopoiesis T	Cellules dendritic cells phenotype sand pathology Sylvia Della Bella	TP tests PMA Ionomycine preparation	Bead assays
9:30-10:30	General review on applications U Sack	T cell pathology (prolifartive sd)	Myelopoiesis Lydia Carmen		Allergie Basophiles Paul Rouzaire ok
11:00 - 12:00	Lymphopoiiese B cytology/immunopheno type L BASEGGIO	Normal T cell population (Pol Apoil)	normal Bone marrow Christine Arnoulet or W Kern	T cell activation test , Cytoplasmic cytokine	Basophil Activation test
12:00 - 13:00	Myeloma Andy Rawstron or Nelly robillard	Immunodeficiencies	Monocytes et pathologie	Blood bank B Brando	
14:00:00-15:00	B cells in immuno-monitoring	NK Phenotypes and pathology	Phagocytosis Bactericidy	PMA Activation test technique	Primary immunodeficiencies
15:00-16:00	Practicals on B Cells analysis (Imd)	NK Cells and cytotoxicity test	Test Phagocytosis Bactericidy	Cytokines Cytoplasmiques	Accreditation Standardisation
16:30 - 17:30	Exploring antigen specific response, ELISPOT, bead ayssays	NK Cytotoxicity	Reading Activation tests	Lecture TAL, PAM	Data Analysis
17:30-18:30	activation tests sample preparation..		Test Phagocytosis Bactericidy	Cytokines Cytoplasmiques	Conclusions, feedback

### LOCATION:

Saint-Etienne Hospital. Biology department - Hôpital Nord.  
For travel directions, please see the next page.

### HOTEL ACCOMMODATION:

Hotel rates have been negotiated in two hotels. Please book in time!  
*To reserve, please contact the hotels directly* and refer to the arrangements made by Prof. Claude Lambert for the Saint-Etienne Winter School.

For travel directions from the hotels to the Course: see under Travel.

### **Hôtel Tenor**

€ 60 per night including breakfast.  
12 rue Blanqui - 42100 Saint-Étienne  
Tel : +33 477 33 79 88 - Fax : 33 477 41 69 81  
[contact@hoteltenor.com](mailto:contact@hoteltenor.com)  
[www.hoteltenor.com](http://www.hoteltenor.com)

### **Résidence des Arts**

€ 52 per night. Discount for 7 nights. No breakfast but Kitchen corner.  
11 rue Gambetta - 42000 St-Etienne  
Tel : +33 477.01.39.39  
[residencedesarts@crous-lyon.fr](mailto:residencedesarts@crous-lyon.fr)

There are more possibilities, please do not hesitate to ask advice ([claudelambert@chu-st-etienne.fr](mailto:claudelambert@chu-st-etienne.fr))

### **TRAVEL :**

**Airport:** International airport Lyon Saint-Exupery; Paris Airport Roissy Charles de Gaulle.

### **From the airport to Saint-Etienne**

#### **Shuttle on Sunday**

Some shuttles from the airport are under arrangement for Sunday afternoon - please send us your flight schedule as soon as possible.

#### **Individual transfer**

1. At the airport, take the Tram to Lyon, Part-Dieu train station. The 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>

2. From Lyon central Part-Dieu station, take the TER train to Saint-Etienne, Châteaureux station: Departure on Mon-Sat every 30 minutes, at .19 and .49 hrs. On Sunday, every hour at .19 hrs. Transfer time is 50 minutes. Ticket: 9,60 euro.  
For the return way the schedule is: Mon-Sat departure at .18 and .48 hrs, on Sunday departure at .48 hrs.

More information on the website: [www.ter-sncf.com](http://www.ter-sncf.com) (select the region: Rhône-Alpes)

Direct access to the English version: <http://www2.ter-sncf.com/english/index.asp?regID=19>.

3. From the Saint-Etienne Châteaureux station to the Hotel, take the tramway, direction Terrasse or Hop Nord. Stop : Hôtel de ville.

### **From Paris airport to Saint-Etienne:**

1. Take the High speed train from the airport to Saint-Etienne. Must be booked in advance!
2. You arrive at Châteaureux train station.
3. From the Saint-Etienne Châteaureux station to the Hotel, take tram way direction Terrasse or Hop Nord. Stop : Hôtel de ville.

**From hotel to the course**

Take tramway T1 from city center to terminus.

You arrive at the hospital. The Biology building is behind the hospital. Turn around on your right hand.

Biology building Grey/green cube. Enter, get upstairs 2<sup>nd</sup> floor.

**REGISTRATION:**

Registration fees include:

- Course
- Documents
- lunch and coffee breaks
- One social dinner
- One year membership fee at ESCCA (including ESCCA credit and ESCCA training and self-testing platform)

**INFORMATION:**

- For questions on the **programme, hotel accommodation, travel:**  
Claude Lambert - [claude.lambert@chu-st-etienne.fr](mailto:claude.lambert@chu-st-etienne.fr)
- For questions or assistance regarding **registration:**  
Global Conference Support – [mail@globalconferencesupport.com](mailto:mail@globalconferencesupport.com)