

## COURSE LOCATION

### Theory classrooms:

- Sala Polivalente (Mar IGTP Building)

### Hands-on training:

- Cytometry Unit / Sala Polivalente  
(Mar IGTP Building)

### Data analysis:

- Informatic room  
(UAB Medicine Faculty, next to IGTP)

## PRICE

(including lunches and coffee breaks)

IIS-Campus Can Ruti personal: **450€**

External personal: **675€**

## REGISTRATION RULES

### STEP 1: Web registration

1. Fill the registration form on the following link:

[https://redcap.link/CURSO\\_CITO\\_IGTP\\_2025](https://redcap.link/CURSO_CITO_IGTP_2025)

### STEP 2: Follow steps email

2. Once your registration has been confirmed, you will receive an email with following steps.

Assistance confirmation  
will be in order of registration



# LIMITED SLOTS!

### MORE INFO:

#### Coordination (address):

**PhD. Joan Puñet**

Head "Unidad Mixta de Citometria IGTP-IJC"



**Germans Trias i Pujol Research Institute (IGTP)**  
Mar Building (Ground floor)



**Josep Carreras Leukaemia Research Institute (IJC)**  
IJC Building (2nd floor)

IIS-Campus Can Ruti  
Ctra. de Can Ruti, Camí de les escoles, s/n  
08916 Badalona (Barcelona)

#### Phone:

+34 930 336 360

#### Email:

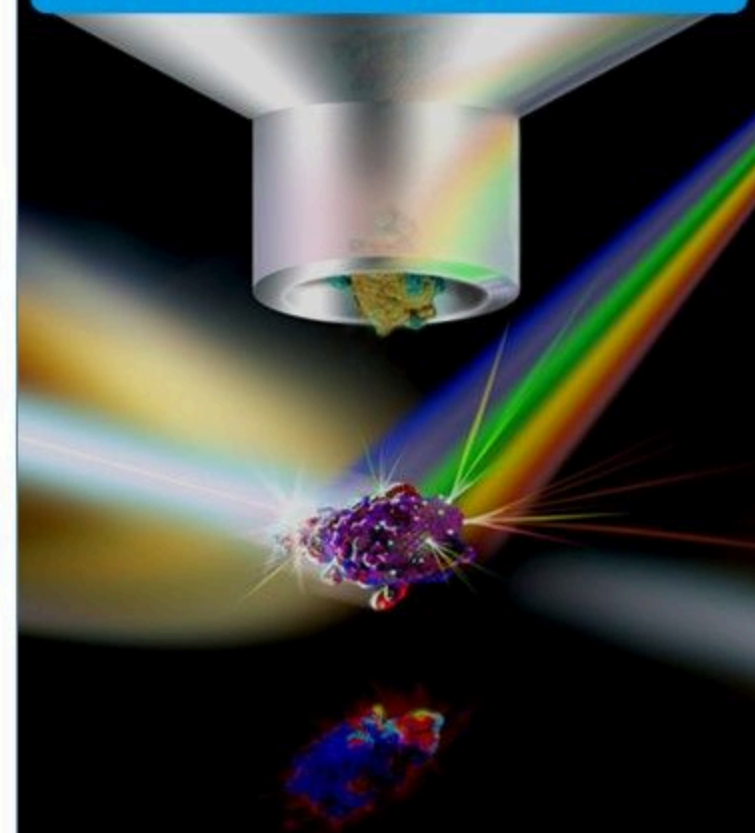
[jpunet@igtp.cat](mailto:jpunet@igtp.cat)  
[jpunet@carrerasresearch.org](mailto:jpunet@carrerasresearch.org)

#### Website:

<https://www.germanstrias.org/es/technology-services/cytometry/>  
[https://www.carrerasresearch.org/en/core-facilities\(sooon\)](https://www.carrerasresearch.org/en/core-facilities(sooon))

# XXIV EDITION

## FOUNDATIONS AND APPLICATIONS IN FLOW CYTOMETRY



Organised by:

Unidad Mixta de Citometria  
IGTP – IJC  
IIS-Campus Can Ruti





## INTRODUCTION

Flow cytometry is a technique that is present in most hospitals, research centres and private laboratories, from its application to clinical diagnosis to complex research projects, not only in the field of biomedicine, but also in other areas such as marine biology and the agri-food industry. In some centres, centralised services have been structured to bring together the different resources dedicated to this technology, this being a common practice in hospitals and research centres in countries with a high degree of research activity (USA, UK, France, Germany, etc.).

Since the beginning of 1999, the Germans Trias i Pujol University Hospital and the Germans Trias i Pujol Health Sciences Research Institute Foundation promoted the creation of a Cytometry Platform to meet the care, research and teaching needs of the centre. This unit developed the PhD course on flow cytometry as part of the Master's programme in Immunology at the Universitat de Barcelona and the Universitat Autònoma de Barcelona, as well as providing continuing education courses for people interested in learning or expanding their knowledge of flow cytometry.

## OBJECTIVES

The aim of the course is to introduce the fundamentals of flow cytometry, familiarise students with the use of the equipment and present the different applications of flow cytometry in the field of immunology, as well as to provide them with the necessary tools for the development of their skills and knowledge.



## MONDAY 20th

OCTOBER

### MORNING

(Sala Polivalente Mar Building)

09:00-09:15h

Welcome and Course Presentation

PhD. Jordi Barretina, IGTP Director.

09:15-10:30h

Introduction to Flow Cytometry I

PhD. Joan Puiguet, Head "Unidad Mixta de Citometría IGTP-UC".

10:30-11:00h

Coffee Break

11:00-13:00h

Introduction to Flow Cytometry II

PhD. Joan Puiguet, Head "Unidad Mixta de Citometría IGTP-UC".

### AFTERNOON

(Cytometry Unit Mar Building)

14:00-18:00h

Practical exercises Group A:  
Calibration and sample acquisition

PhD. Joan Puiguet, Gerard Requena, Sara Monreal,  
Unidad Mixta de Citometría IGTP-UC.

## TUESDAY 21st

OCTOBER

### MORNING

(Aula Informàtica  
Facultat Medicina UAB)

09:30-13:00h

Data analysis Group A

PhD. Joan Puiguet, Gerard Requena, Sara Monreal,  
Unidad Mixta de Citometría IGTP-UC.

### AFTERNOON

(Cytometry Unit Mar Building)

14:00-18:00h

Practical exercises Group B:  
Calibration and sample acquisition

PhD. Joan Puiguet, Gerard Requena, Sara Monreal,  
Unidad Mixta de Citometría IGTP-UC.

## WEDNESDAY 22nd

OCTOBER

### MORNING

(Aula Informàtica  
Facultat Medicina UAB)

09:30-13:00h

Data analysis Group B

PhD. Joan Puiguet, Gerard Requena, Sara Monreal,  
Unidad Mixta de Citometría IGTP-UC.

### AFTERNOON

(Sala Polivalente Mar Building)

14:00-15:00h

Know your tools: Antibodies

PhD. Jorge Carrillo Molina, PI of the Immunology  
(IGG) Group, IDI/Caixa

15:00-15:30h

Coffee break

15:30-16:30h

Citometría de Flujo y Medicina Regenerativa

José Miguel Vaquero, Head of Flow Cytometry Facility, Instituto de Investigación Biomédica de Bellvitge (IDIBELL).

16:30-18:00h

Roundtable (Interactive Troubleshooting)

## THURSDAY 23rd

OCTOBER

### MORNING

(Sala Polivalente Mar Building)

09:00-10:30h

Fundamentals in Spectral Flow Cytometry (Full-Spectrum)

Sara Monreal, Unidad Mixta de Citometría IGTP-UC.

10:30-11:00h

Coffee Break

11:00-12:00h

Protocol design: How to success in your 30+ color full-spectrum experiment

TAS (TBD). Palex.

12:00-13:00h

Introduction to Computational Cytometry: See the path

PhD. Joan Puiguet, Head "Unidad Mixta de Citometría IGTP-UC".

### AFTERNOON

(Sala Polivalente Mar Building)

14:00-15:00h

Introduction to Computational Cytometry: Walk the path

Felipe Rodriguez Lozano, Data Science at VIRIVAC Group, IDI/Caixa.

15:00-15:30h

Coffee Break

15:30-18:00h

Multicolor panel design: Theory and practical examples

PhD. Alberto Crespo / PhD. Mattia Gallizoli, Account Manager/Application Specialist, BD Biosciences.

## FRIDAY 24th

OCTOBER

### MORNING

(Sala Polivalente Mar Building)

09:00-10:00h

Theoretical concepts in Flow Cytometric Cell Separation

Gerard Requena, Unidad Mixta de Citometría IGTP-UC, IGTP.

10:00-11:00h

Single Cell Sorting Optimization

PhD. Hilleke Benjamin Van Splunder, Post doc at Endothelial pathobiology and microenvironment group, UC.

11:00-11:30h

Coffee Break

11:30-13:00h

Citometría de microorganismos, de imagen y de masas: las otras citometrias

Jaume Comas, Head of Flow Cytometry Facility, Centres Científics i Tecnològics - Universitat de Barcelona (CCiTUB).

### AFTERNOON

(Sala Polivalente Mar Building)

14:00-15:00h

Cytometry Data Presentation for Quality Publishing

PhD. Jordi Petriz, PI of the Functional Cytometry group, IGTP.

15:00-16:00h

The Cytometry of the Little Things: Nanoparticles, Virus, EVs.

PhD. Oscar Fornas, Head of Flow Cytometry Facility, CRG-UPF.

16:00-16:30h

Coffee Break

16:30-17:30h

Cyto-Quiz recap

17:30-18:00h

Closure