



# <sup>13</sup>C-FLUXOMICS IN CANCER CELLS

The objective is to acquire theoretical and practical knowledge for the analysis of metabolic systems in cancer cells using <sup>13</sup>C-fluxomics approaches

## TARGET STAFF

- Have an initiated or intermediate level in metabolism and cancer
- Have an ongoing project or submitted around the understanding of metabolism in cancer cells
- Target audience: PhD students, post-docs, researchers, engineers or technical staff in oncology

## PROGRAM

### Day 1

- General Introduction
- Introduction : Cancer and Metabolism
- Introduction: Metabolic systems

### Day 2

- Module 1 « Experimental design and sampling » [Theoretical and practical courses] :
  - Polar molecules
  - Lipides

### Day 3

- Module 2 « Analysis and data treatment»
- Module3 « Flux maps »
- Module 4 « Data analysis for metabolic fluxes»

### Day 4

- Module 4 : «Metabolic flux modelization: cellular scale»
- Feedback & round table
- Conclusion and evaluation of the training

## Responsible :

### Maud Heuillet

Research Engineer INSA GSO

Mass spectrometry and isotopic analysis

## Speakers :

### Lindsay Peyriga

Engineer assistant INRA

Co-manager of MetaToul- Metabolics Network platform

### Jean-Charles Portais

Professor UPS in Biochemistry and metabolism

Scientific director of MetaToul platform

### Jean-Emmanuel Sarry

Researcher INSERM

Manager of FlexAML team in CRCT

### Justine Bertrand-Michel

Research Engineer INSERM

Co-director of MetaToul platform and responsible of MetaToul-Lipidomics platform

### Nathalie Poupin

Researcher INRA

Network analysis and bioinformatics

### Floriant Bellvert

Engineer CNRS

Co-manager of MetaToul- Metabolics Network platform

### Edern Cahoreau

Research Engineer CNRS

NMR, isotopic analysis and fluxomics

### Fabien Jourdan

Research director INRA

Network analysis and bioinformatics

## INFOS

from 08 to 11 October  
2019

Duration :

4 days – 30 hours

Location: INSA Toulouse

Price: 800 €

Academic GSO price : 620€

Information & Registration :

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