



¹³C-FLUXOMICS IN HEALTH DOMAIN

The objective is to acquire theoretical and practical knowledge for the analysis of metabolic systems in mammalian cells or tissues using ¹³C-fluxomics.

TARGET AUDIENCE

The course is intended for PhD students, post-docs, researchers, engineers or technical staff from academia or industry with:

- basic/intermediate knowledge in metabolism, Mammalian cells and health domains

- ongoing/forthcoming project regarding metabolism in health

Organizers

Lindsay Peyriga

Application Engineer, CNRS

Head of MetaboHUB-MetaToul-Metabolic networks

PROGRAM

Day 1

- General Introduction
- Metabolism in Health
- Metabolic systems

Day 2

- Module 1 « Experimental design and sampling » :
 - Theoretical course
 - Practical course
- Module 2 « Analysis and data treatment: NMR »

Day 3

- Module 2 « Analysis and data treatment: MS »
- Module3 « Calculation of metabolic fluxes »
- Module 4 « metabolic networks for metabolome mining»

Day 4

- « Modelling metabolic fluxes in genome-scale metabolic networks »
- Feedback & round table
- Conclusion and Training evaluation

Instructors

Laurent Le Cam

Research director IRCM, INSERM

Cancer metabolism

Jean-Charles Portais

Professor University of Toulouse

Scientific director of MetaboHUB-MetaToul

Metabolism, metabolic systems, metabolomics, fluxomics

Noémie Butin

PhD student

MetaboHUB-MetaToul

MS, isotopic analysis and fluxomics

Justine Bertrand-Michel

Research Engineer, INSERM

MetaboHUB-MetaToul

Co-director of MetaboHUB-MetaToul and head of MetaboHUB-MetaToul-Lipidomics

Nathalie Poupin

Researcher, INRAE

Network analysis and bioinformatics

Pierre Millard

Researcher, INRAE

Metabolic systems biology

Floriant Bellvert

Research Engineer, CNRS

Head of MetaboHUB-MetaToul-Metabolic networks

Edern Cahoreau

Research Engineer, CNRS

MetaboHUB-MetaToul

NMR, isotopic analysis and fluxomics

Fabien Jourdan

Research director, INRAE

MetaboHUB-MetaToul

Network analysis and bioinformatics

Cécilia Berges

Engineer, INRAE

MetaboHUB-MetaToul

Robotics, isotopic analysis and fluxomics

A certificate of attendance will be delivered at the end of the training

INFOS

 3 au 6 octobre 2022

Duration :
4 days – 30 hours

 Prices

Private Compagny : 2200€

Academic : 1300 €

Information & Registration :

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