C-FLUXOMICS IN CANCER CELLS

The objective is to acquire theoretical and practical knowledge for the analysis of metabolic systems in cancer cells using 13C-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
- Module 2 « Analysis and data treatment »
- Module 3 « Flux maps »
- Module 4 « Data analysis for metabolic fluxes »

Day 3
- Module 2 « Analysis and data treatment »
- Module 3 « Flux maps »
- Module 4 « Data analysis for metabolic fluxes »

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

TARGET STAFF

- 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
  Cco-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

13C-FLUXOMICS IN CANCER CELLS

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
- Module 2 « Analysis and data treatment »
- Module 3 « Flux maps »
- Module 4 « Data analysis for metabolic fluxes »

Day 3
- Module 4 « Metabolic flux modelization: cells scale »
- Feedback & round table
- Conclusion and evaluation of the training

TARGET STAFF

- 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
  Cco-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

INEXOS

- from 08 to 11 October 2019
- Duration: 4 days – 30 hours
- Location: INSA Toulouse
- Price: 800 €
- Academic GSO price: 620 €

Information & Registration:
- 05 61 55 92 53
- fcq@insa-toulouse.fr