

April 3-5 2019
Cytometry Workshop
In partnership with Inserm
« Flow cytometry high dimensional analysis Tools »

Preliminary Program

Wednesday 3rd April

KEYNOTE LECTURE

9h30 – 9h45	Welcome Organizing Committee
9h45 – 10h45	Learning <i>in vivo</i>: How data science and cytomics are connecting cell biology and medicine? <i>Dr Jonathan Irish (Vanderbilt University, Nashville) 45mn + 10-15mn questions</i>
10h45 – 11h	Coffee break
11h – 12h	State of the Art <i>Quentin Barbier (CIPHE, Marseille) 45mn + 10-15mn questions</i>
12h – 13h30	Lunch break

PRACTICAL MODULES

13h30 – 15h15	Groupe 1 R Basics <i>Quentin Barbier</i> Groupe 2 Discovery of Cytobank <i>Dr Jonathan Irish</i>
15h15 – 15h30	Coffee break
15h30 – 17h 15	Groupe 1 Discovery of Cytobank <i>Dr Jonathan Irish</i> Groupe 2 R Basics <i>Quentin Barbier</i>

Thursday 4th April

PRACTICAL MODULES

9h -10h30

Groupe 1

Raw data analysis and quality control (FlowClean, FlowAI) + other packages
FlowStat ? Transform ? Compensation?

Quentin Barbier

Groupe 2

Cytobank advanced: viSNE/tSNE, FlowSOM, Citrus

Dr Jonathan Irish

10h30-10h45

Coffee break

10h45-12h15

Groupe 1

Cytobank advanced: viSNE/tSNE, FlowSOM, Citrus

Dr Jonathan Irish

Groupe 2

Raw data analysis and quality control (FlowClean, FlowAI) + other packages
FlowStat ? Transform ? Compensation ?

Quentin Barbier

12h15-13h45

Lunch break

KEYNOTE LECTURE

13h45- 14h45 **Data analysis pipeline: different clustering methods and associated statistics**
Dr Samuel Grandjeaud (CRCM, Marseille) 45mn + 10-15mn questions

PRACTICAL MODULES

15h-16h30

Groupe 1

Advanced R : OpenCyto ; Cytokit

Quentin Barbier

Groupe

Percentage analysis, statistics, MeV

Dr Samuel Grandjeaud

19h30

Dinner speakers / Organizing Committee

Friday 5th April

PRACTICAL MODULES

9h – 10h30 **Groupe 1**

Percentage analysis, statistics, MeV

Dr Samuel Grandjeaud

Groupe 2

Advanced R : OpenCyto ; Cytokit

Quentin Barbier

10h30-10h45 **Coffee break**

10h45-12h15 **Groupe 1**

CIPHoLD: population detection and annotation

Quentin Barbier

Groupe 2

Comparison of clustering algorithms: influence of parameters

Dr Samuel Grandjeaud

12h15-13h45 **Pause déjeuner**

13h45-15h15 **Groupe 1**

Comparison of clustering algorithms: influence of parameters

Dr Samuel Grandjeaud

Groupe 2

CIPHoLD: population detection and annotation

Quentin Barbier

15h15-15h30 **Closing**