

## Scientific program

Single Cell Approaches in Tumor and Immune Cell Heterogeneity

### Monday, July 5

#### Afternoon

12:00-14:00 Registration and Welcoming

13:00-14:00 Lunch

#### Introduction to tumor heterogeneity

14:00-15:15 Research Lecture: **Jude Fitzgibbon (Cancer Research, Barts Centre, UK)**

15:15-16:30 Research Lecture: **Jérôme Galon (CRC, France)**

16:30-17:00 Coffee break

17:00-18:15 Research Lecture: **Laurence Zitvogel (Institut Gustave Roussy, France)**

18:15-19:00 Free time

19:00-20:00 Article preparation

20:30-21:30 Diner

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### Tuesday, July 6

#### Single cell sequencing

#### Morning

08:00-10:00 Introduction to single-cell RNA-seq: How does it work & What can we learn? **Pierre Milpied (CIML, France)**

10:00-10:30 Coffee break

10:30-12:30 Using single-cell RNA-seq to decipher temporal programs in tumors **Cédric Maurange (IBDM, France)**

12:30-14:00 Lunch

#### Single cell sequencing

#### Afternoon

14:00-15:15 Research lecture: **Ido Amit (Weizmann Institute of Science, Israel)**

15:15-16:15 Research Lecture: **Miriam Merad (Icahn Mount Sinai NY, USA)**

16:15-17:00 Coffee break

17:00-18:00 Research Lecture: **Fatima Mechta-Grigoriou (Institut Curie, France)**

18:00-19:00 Free time

19:00-20:00 Article preparation

20:30-21:30 Diner

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### Wednesday, July 7

#### Analysis Workshop

#### Morning

08:30-09:30 Introduction to the Bioinformatics & Mathematics behind the single-cell RNA-seq data analysis  
**Lionel Spinelli / Sabrina Baaklini (CIML, France)**

09:30-09:45 Coffee break

09:45-11:15 Workshop: Exploring single-cell RNA-seq datasets (Group A)

11:15-12:45 Workshop: Exploring single-cell RNA-seq datasets (Group B)

12:45-14:00 Lunch

#### Afternoon

#### Single cell analysis in the clinic/industry

14:00-15:15 Translational research lecture: **Sabrina Carpentier (AP-HM - Innate Pharma, France)**

15:15-16:30 Translational research lecture: **Régis Costello (AP-HM, France)**

16:30-17:00 Coffee break

17:00-18:30 Posters from students working on single-cell RNA-seq projects

18:30-19:00 Free time

19:00-20:00 Article preparation

20:30-21:30 Diner

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### Thursday, July 8

Morning	<b>Cytometry</b>
	08:30-09:30 Introduction to mass, flow and spectral spectometry: <b>Hervé Luche (CIPHE, France)</b>
	09:30-10:45 Research lecture: <b>Toby Lawrence (CIML, France - King's College, UK)</b>
	10:45-11:15 Coffee break
	11:15-12:15 CIVIS partners
	12:15-12:45 Translational research lecture: <b>Horia Bumbea (UMFCD, Romania)</b>
	12:45-14:00 Lunch
Afternoon	<b>Spatially resolved single cell analysis I</b>
	14:15-15:00 Introduction to highly multiplexed methods for in situ analysis of protein and RNA expression in cancer tissues
	<b>Akoya Biosciences</b>
	15:00-15:45 Research lecture: <b>Mikaël Roussel (MICMAC, France)</b>
	15:45-16:30 Research lecture: <b>Vincent Detours (ULB, Belgium)</b>
	16:30-17:00 Coffee break
	17:00-18:15 Research lecture: Spatial and single-cell metabolomics: <b>Theodore Alexandrov (EMBL, Germany)</b>
	18:15-19:00 Free time
19:00-20:00 Article preparation	
	20:30-21:30 Diner

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### Friday, July 9

#### Spatially resolved single cell analysis II

#### Morning

08:00-09:00 3D high resolution microscopy: challenges and solutions **Christian Feuillet (Miltenyi Biotec, France)**

09:00-10:15 Research lecture: **Philippe Bousso (Institut Pasteur, France)**

10:15-10:45 Coffee break

10:45-12:00 Research lecture: **Anne Rios (Princess Maxima Center, The Netherlands)**

12:00-13:15 Research lecture: **Ali Ertürck (iTERM Helmholtz, Germany)**

13:15- 14:30 Lunch

#### Workshop

#### Afternoon

14:30-16:00 Article presentations by students & roundtable discussions

16:00-16:30 Coffee break

16:30-17:30 Article presentations by students & roundtable discussions

20:30-21:30 Diner

## Social events

**Saturday, July 10**

Visit of the  
Calanques  
National Park  
(Hike or boat)

