

8th Scientific day of the Graduate School Life Sciences & Health

Single-cell and spatial -omics

Program

- 8h30 *Welcome*
- 9h15 *Introduction*
- 9h30 *Session 1: Single-cell RNAseq*
- 9h30 Margaux Gardet (Institut Gustave Roussy)
Spatial transcriptomic analysis of cancer's immunological landscapes provides deep insights into complex interactions for improved treatments
- 10h00 Joana Santos (I2BC)
Single cell RNA-seq reveals that the malaria parasite prepares for life within the host by activating a transcriptional cascade
- 10h30 Julien Lang (IPS2)
Cell specialization and coordination in Arabidopsis leaves upon pathogenic attack revealed by scRNA-seq
- 11h00 *Coffee break*
- 11h30 *Session 2: Beyond single-cell sequencing*
- 11h30 Key-note speaker: Pascal Barbry (IPMC, Nice)
Investigating normal and pathological lungs by single-cell and spatial transcriptomics
- 12h30 *Lunch break*
- 14h00 *Session 2: Beyond single-cell sequencing (continued)*
- 14h00 Kasia Siudeja (I2BC)
Somatic genome mosaicism and endogenous retroelement activity in the fly gut
- 14h30 Melissa Saichi (Institut Curie)
Tracing the dynamics of transcriptome and epigenome landscapes in early basal-like breast tumorigenesis
- 15h00 *Session 3: From single-cell to spatial-omics*
- 15h00 Cecile Badoual (Institut Gustave Roussy)
The value of a transcriptomic molecular and spatial approach platform in cancer research
- 15h30 *Coffee break*
- 16h00 *Session 3: From single-cell to spatial-omics (continued)*
- 16h00 Milena Hasan (Institut Pasteur)
Single cell multi-omics and spatial transcriptomics: novel layers of integrative biomarker discovery
- 16h30 Antonin Marchais (Institut Gustave Roussy)
Translating single cell and spatial omics into clinical applications for rare diseases
- 17h00 *Conclusions*

Participation is **free**, but registration is **mandatory**: <https://forms.office.com/e/6T3rVgPAYE>