

## Inserm Workshop 265

**Les nouveaux enjeux du séquençage sur cellule unique : intégration multi-omique dans l'espace et le temps**

**Single-cell sequencing in space and time in the multi-omic era**

**1-3 décembre 2021** ▣ **December 1-3 2021** ▣ **Bordeaux, France**

**Mercredi 1 décembre 2021** ▣ **Wednesday December, 1<sup>st</sup> 2021**

15:30 - 16:00	<b>Reception of participants</b>
16:00 - 16:15	Welcome and presentation by the organizers
<b>SESSION I</b>	<b>Ultra-high throughput single-cell sequencing</b>
16:15 - 17:00	Single-cell sequencing of the nervous system <b>Sten Linnarsson (Karolinska Institutet, Stockholm, Sweden)</b>
17:00 - 17:15	<b>Flash presentation</b>
17:15 - 17:45	<b>Coffee break and Poster session</b>
17:45 - 18:30	Ultra-high throughput single-cell sequencing with combinatorial indexing <b>Cole Trapnell (University of Washington, Seattle, USA)</b>
18:30 - 19:15	Single-cell cancer multi-omics <b>Orit Rozenblatt-Rosen (Genentech, San Francisco, USA)</b>
19:30	<b>Dinner</b>

**Jeudi 2 décembre 2021** ▣ **Thursday December, 2<sup>nd</sup> 2021**

06:30 - 08:30	<b>Breakfast</b>
<b>SESSION II</b>	<b>Single-cell multi-omics analyses</b>
08:30 - 09:15	Computational strategies to decipher gene regulatory programs from single-cell multi-omics data <b>Stein Aerts (VIB, Leuven, Belgium)</b>
09:15 - 10:00	Single-cell ChIP-seq and epigenomics <b>Céline Vallot (Institut Curie, Paris, France)</b>
10:00 - 10:30	<b>Coffee break and Poster session</b>
10:30 - 11:15	Long-read single-cell sequencing <b>Rainer Waldmann (IPMC, Sophia Antipolis, France)</b>
11:15 - 12:00	Deep learning approaches for single-cell data integration <b>Malte Lücken (Helmholtz Zentrum München, Germany)</b>
12:00 - 14:00	<b>Lunch</b>

<b>SESSION III</b>	<b>Spatial transcriptomics</b>
14:00 - 14:45	Spatially resolved multi-omic characterization of the tumor microenvironment in FFPE tissues <b>Marlon Stoeckius (10x Genomics, Stockholm, Sweden)</b>
14:45 - 15:30	The power of ONE: Immunology in the age of single cell genomics <b>Ido Amit (Weizmann Institute of Science, Rehovot, Israel)</b>
15:30 - 16:00	<b>Coffee Break and Poster session</b>
16:00 - 16:45	The spatial and multimodal landscape of gene expression and genome integrity in tumors <b>Joakim Lundeberg (SciLifeLab, Solna, Sweden)</b>
16:45 - 17:30	Spatial integration of single-cell multi-omics <b>Roser Vento-Tormo (Wellcome Sanger Institute, Cambridge, United Kingdom)</b>
17:30 - 18:15	Round Table 1 : New frontiers in spatial transcriptomics <b>Session III speakers, moderator : Pascal Barbry</b>
19:30 - 20:15	<b>Cocktail</b>
20:15	<b>Dinner</b>

Vendredi 3 décembre 2021 ■ **Friday December, 3<sup>rd</sup> 2021**

06:30 - 08:30	<b>Breakfast</b>
<b>SESSION IV</b>	<b>Time-resolved transcriptomics</b>
08:30 - 09:15	RNA velocity in single cells <b>Gioele La Manno (EPFL, Lausanne, Switzerland)</b>
09:15 - 10:00	Lineage tracing <b>Alexander Van Oudenaarden (OncoCode Institute, Utrecht, The Netherlands)</b>
10:00 - 10:30	<b>Coffee Break and Poster session</b>
10:30 - 11:15	Lineage tracing <b>Samantha Morris (Washington University, Saint-Louis, USA)</b>
11:15 - 12:00	Round Table 2 : New frontiers in time-resolved single cell omics <b>Session IV speakers, moderator : Pierre Milpied</b>
12:00 - 14:00	<b>Lunch</b>
14:00	<b>Departure</b>