

Inserm Workshop 286

Impact des approches spatiales multi-omiques pour la recherche fondamentale et clinique

Impact of multiomic spatial approaches in fundamental and clinic research

19-21 novembre 2025 / November 19-21, 2025 ■ Bordeaux, France

The INSERM workshop 286 will highlight 4 main themes/sessions through various presentations. These themes will be address alternatively each day to highlight the complementarity of spatial multiOMICs approaches.

SESSION 1 : Overview of spatial transcriptomics and proteomics and the future challenges of these technologies

SESSION 2 : Spatial proteomic and proteogenomics, new tools to discover the hidden dimensions of biology

SESSION 3: A deep diving into the potential of spatial transcriptomic tools for your research projects

SESSION 4 : Integrating spatial multi Omics data with bioinformatic and machine learning algorithms

Mercredi 19 Novembre 2025 ■ **Wednesday November, 19th 2025**

15:30 - 16:00	Reception of participants
16:00 - 16:15	Welcome and presentation by the organizers
16:15 - 17:00	Introduction to spatial proteomics guided by mass spectrometry imaging and its applications in clinical research Isabelle Fournier (PRISM U1192, Lille, France)
17:00 - 17:30	Coffee break
17:30 - 18:15	Overview of spatial transcriptomic technologies and their applications TO BE CONFIRM
18:15 - 19:00	Single cell proteomics Karl Mechtler (Research Institute of Molecular Pathology, Austria)
19:30	Dinner

Jeudi 20 Novembre 2025 ■ **Thursday November, 20th 2025**

06:30 - 08:30	Breakfast
08:30 - 09:15	Spatial omics guided by Mass spectrometry associated to patient survival in glioblastoma Michel Salzet (PRISM U1192, Lille, France)
09:15 - 10:00	OpenProt: deeper functional annotation of the coding potential of eukaryotic genomes Xavier Roucou (Université de Sherbrooke, Canada)

10:00 - 10:30	Coffee break
10:30 - 11:15	Application of spatial omics to reveal cells interaction and organization across multiple dimensions to accelerate discovery and advance cures. Jasmine Plummer (Saint Jude Children's Research Hospital, Memphis, USA)
11:15 - 12:00	TO BE CONFIRM TO BE CONFIRM
12:00 - 14:00	Lunch
14:00 - 14:45	Integrative Riboseq analyses for proteogenomic in type 2 diabetes and related diseases Amélie Bonnefond (EGID, Lille, France)
14:45 - 15:30	Machine learning for the integration of omics Arnaud Droit (Université de Laval, Canada)
15:30 - 16:00	Coffee Break
16:00 - 16:45	Comparison of spatial transcriptomics technologies to better define tissue organization Luciano Martelotto (SAiGENCI, Adelaide, Australia)
16:45 - 17:30	Combining spatial transcriptomic and proteomic to understand pancreatic oncogenesis Remy Nicolle (CRI, Paris, France)
17:30 - 18:30	Round Table: Worldwide initiative to overcome spatial technologies new challenges
19:30 - 20:15	Cocktail
20:15	Dinner

Vendredi 21 Novembre 2025 ■ Friday November, 21st 2025

06:30 - 08:30	Breakfast
08:30 - 09:15	Proteogenomic to discover alternative proteins Sarah Slavoff (Yale University, USA)
09:15 - 10:00	Integrating spatial omics Lennart Martens (Ghent University, Belgium)
10:00 - 10:30	Coffee Break
10:30 - 11:15	Spatial single cell transcriptomics atlas of the human respiratory tract Pascal Barbry (IPMC, Nice, France)
11:15 - 12:00	Spatial transcriptomic applied to non-model organism Marco Grillo (SciLife Lab, Stockholm, Sweden)
12:00 - 12:30	Open discussion: Future of these technologies?
12:30 - 14:00	Lunch
14:00	Departure