

# KICKOFF

6 octobre 2025 – Amphi LS2N

UFR Sciences & Techniques – Bât 34

2 Chemin de la Houssinière, Nantes



## PROGRAM

8h30 Welcome of participants

9h00 Introduction - *Richard Redon and Jérémie Bourdon*

### AXIS 1 RESOURCES AND METHODS IN -OMICS

9h15 SpOTlight on spatial biology in Nantes - *Marie-Astrid Boutet & Richard Danger*

9h30 Impact of genetic diversity on HLA imputation - *Nicolas Vince*

9h45 Genotyping by low pass sequencing - *Richard Redon*

10h00 From Bulk to Single Cells and Back: Multi-omic Integration to Reconstruct Blood Cancer Subclonal Evolution - *Nils Giordano*

10h15 Discussions

*Moderators : Julien Barc and Marie-Astrid Boutet*

10h45 Coffee break

### AXIS 2 DATA INTEROPERABILITY IN OPEN SCIENCE

11h00 Querying over Secured Federations of Biomedical Knowledge Graphs - *Hala Skaf*

11h15 Semantic Beacons: Federated querying of clinico-genetic data leveraging semantic web technologies and the Beacon standard for genomic discoverability - *Alexandrina Bodrug*

11h30 Accessibility of healthcare data at Nantes University Hospital - an overview - *Matthieu Wargny*

11h45 Genetic architecture of Multiple Sclerosis patients in the French national OFSEP-HD cohort - *Julien Paris*

12h00 Discussions

*Moderators : Hala Skaf and Alban Gaignard*

12h30 Buffet Lunch

### AXIS 3 NEW COMPUTATIONAL MODELS FOR -OMICS DATA INTEGRATION AND INTERPRETATION

13h45 Symbolic learning of the dynamics of biomarkers involved in the development of hospital-acquired pneumonia (HAP) - *Morgan Magnin*

14h00 HUMESS : Integrating Quantitative Transcriptomic Analysis and Metabolic Modeling to Unveil Condition-Specific Gene Signatures - *Louis Paré*

14h15 Deep exploration of logical models of cell differentiation in human preimplantation embryos - *Carito Guziolowski*

14h30 Incorporating complex genetic model into risk estimation  
*Fabien Laporte*

14h45 Discussions

*Moderators : Damien Eveillard and Carito Guziolowski*

15h00 Coffee Break

### AXIS 4 DEMONSTRATORS IN MULTI-OMICS

15h15 Reconstructing Human notochord Cell Fate: multi-Omics integration for modeling development and disease - *Anne Camus*

15h30 Integrating multi-omics in chronic kidney allograft rejection - *Sophie Limou*

15h45 Looking at autism-associated gut microbiome biomarkers through multi-omic data analysis - *Camille Trottier*

16h00 Multi-omics Stratification of HAP Risk – *Debajyoti Sinha*

16h15 Longitudinal analysis of the metabolic response to critical illness - *Mélanie Pétrier*

16h30 Discussions

*Moderators : Sophie Limou and Maxime Mahé*

17h00 Conclusions - *Richard Redon and Jérémie Bourdon*