

# Machine Learning methods for multi-omics data integration

Silvia Bottini, PhD. Junior Professor Chair INRAE

Justine Labory, PhD candidate “Life Sciences and Health”

- Day 1      Fundamentals of biology and OMICS, Basis of OMICS data pre-processing
- Day 2      TP: OMICS databases
- Day 3      Algorithms for multi-omics integration and integration challenges
- Day 4      TP:          practical experimentation of algorithms for multi-omics integration  
for sample stratification
- Day 5      TP: review of papers presenting algorithms for multi-omics integration for  
disease-driver and biomarker identification & project preparation
- Day 6      TP: practical experimentation of algorithms for multi-omics integration for  
disease-driver and biomarker identification
- Day 7      Advanced algorithms for multi-omics integration
- Day 8                      Exam: Project presentations