

Swiss Institute of Bioinformatics

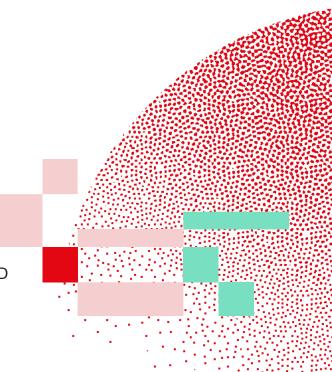
BIOLOGY-INFORMED MULTIOMICS DATA INTEGRATION AND VISUALIZATION

Introduction

Deepak Tanwar

June 16-17, 2025





Trainers/ organisers

- >> Deepak Tanwar: Trainer at SIB & Bioinformatics Specialist at UZH
- >>> Joana (Juna) Carlevaro Fita: Bioinformatics Trainer at SIB and UNIBE
- >> Geert van Geest: Training Project Manager at SIB
- >> Patricia Palagi: Training Group Leader at SIB



Learning outcomes

- Import and integrate pre-processed ATAC-seq, RNA-seq, ChIP-seq, and Bisulfite-seq data using R and Bioconductor packages
- Senerate and interpret overlap matrices to identify regions of cooccurrence and regulation
- >> Perform functional analysis of the results
- >> Create informative and visually appealing plots to represent multi-omics data



Learning experiences

- >> Lectures
- Quizzes
- Exercises



Quiz: 1-5



Communication

- >> Course website: https://sib-swiss.github.io/biology-informed-multiomics-training/
- >> Shared document
 - >> General links for the course
 - >> Please write your name for the exam

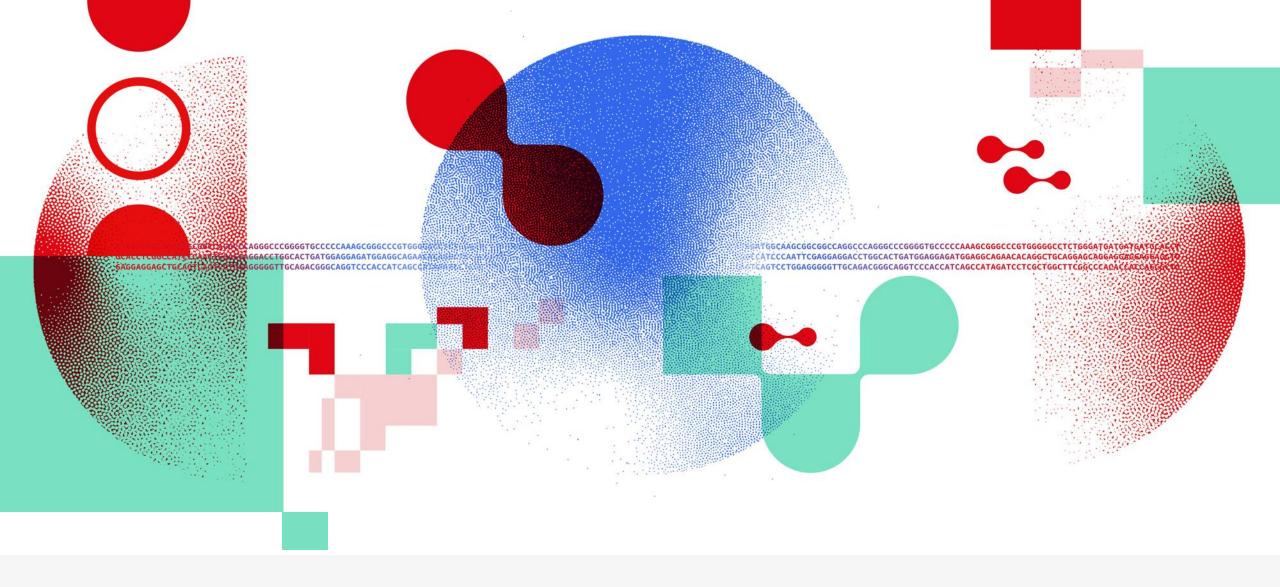


Introduction round



Your name
What do you do?
Why are you joining the course?





Thank you

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