Swiss Institute of Bioinformatics

BIOLOGY-INFORMED INTEGRATION AND VISUALIZATION OF MULTIOMICS DATA

Introduction

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Trainers/ organisers/ helpers

- **Deepak Tanwar**: Trainer at SIB & Bioinformatics Specialist at UZH
- **Joana (Juna) Carlevaro Fita**: Bioinformatics Trainer at SIB and UNIBE
- **Monique Zahn**: 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
- Generate and interpret **`overlap matrices` to identify regions** of co-occurrence and regulation
- Perform **`functional analysis`** of the results
- Create informative **plots to represent multi-omics** data

Learning experiences

- Lectures
- Quizzes
- Exercises

Quiz: 1-5

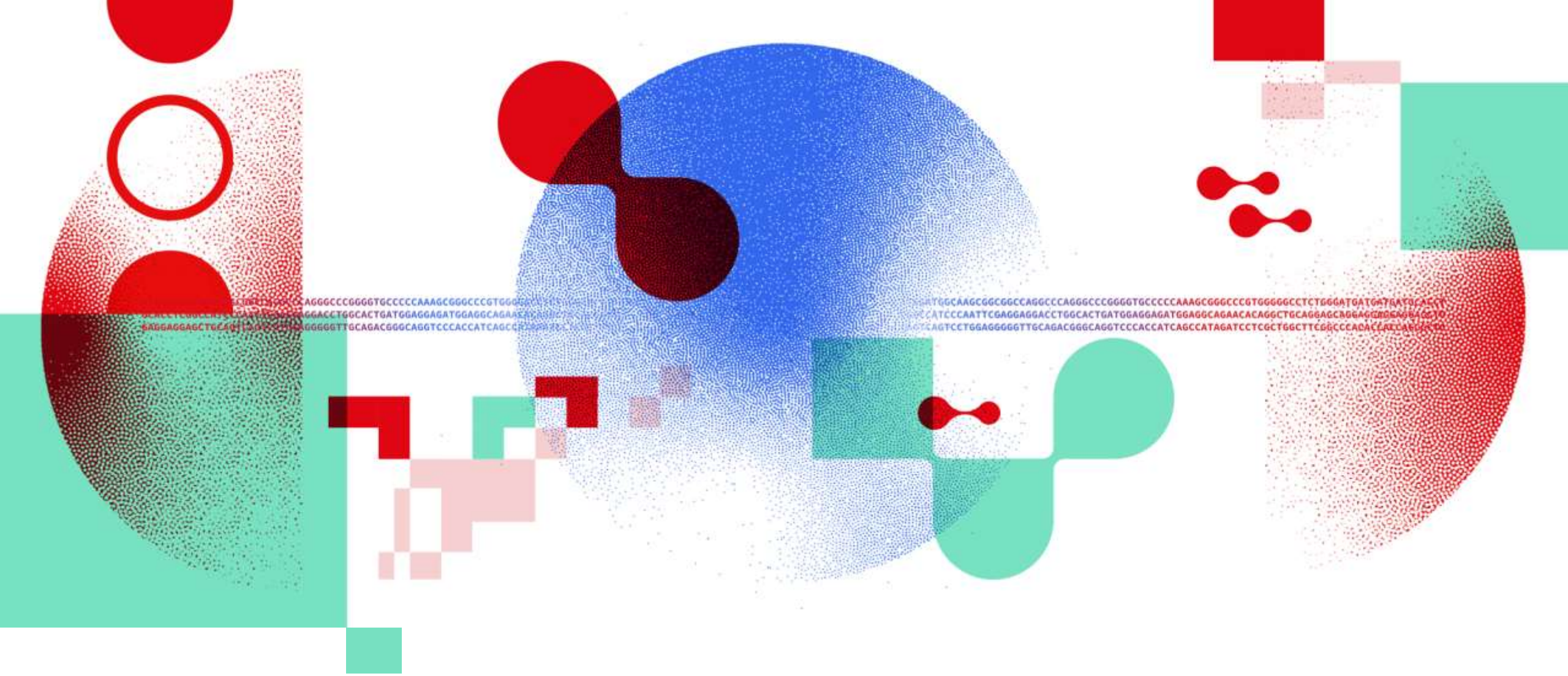
Communication

- Course website: https://sib-swiss.github.io/multiomics-biological-integration-training/

- Shared document
  - General links for the course
  - Please write your name for the exam

Introduction round

Your name
What do you do? (PhD/ postdoc)
Your topic of research.
Why are you joining the course?



Thank you

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