



Swiss Institute of
Bioinformatics

BIOLOGY-INFORMED MULTIOMICS DATA INTEGRATION AND
VISUALIZATION

Introduction

Deepak Tanwar

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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
- » **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
- » 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

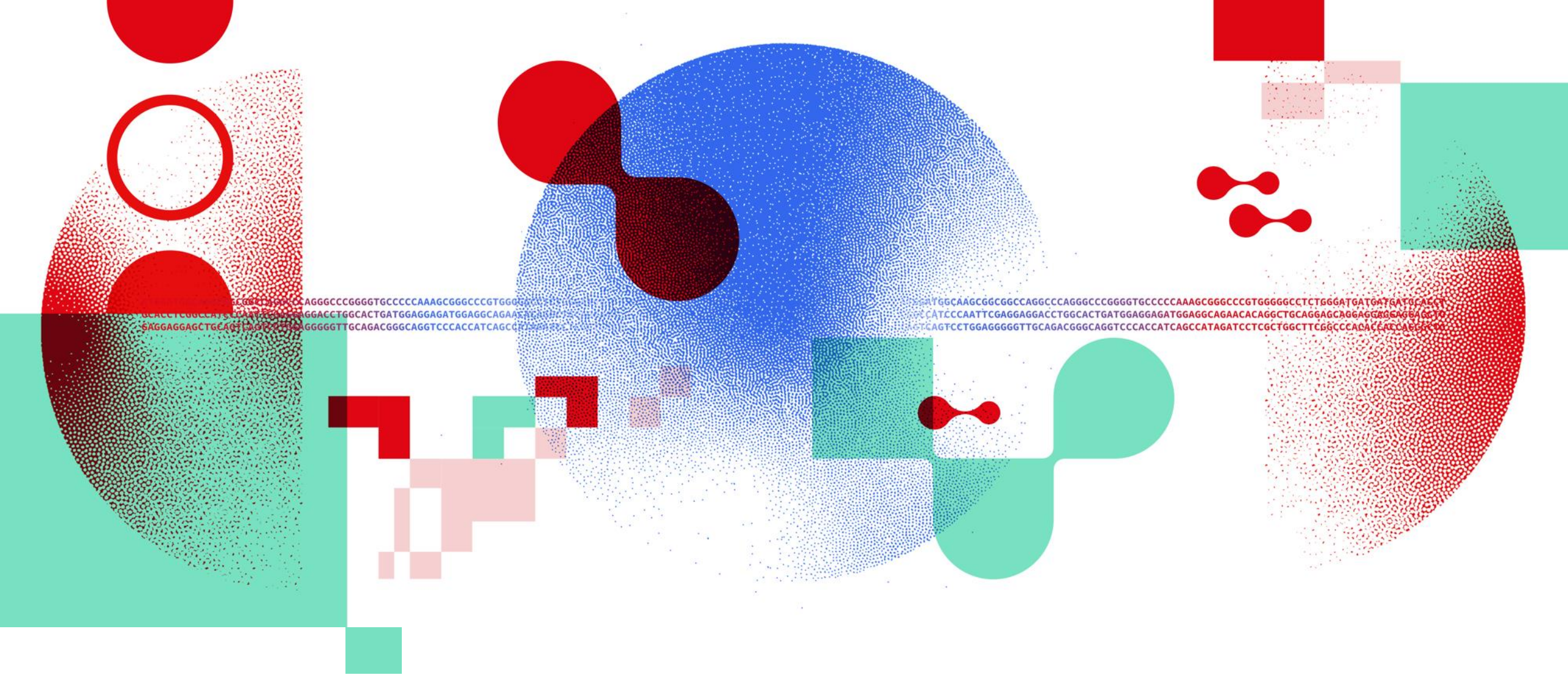
Communication

- »» Course website: <https://sib-swiss.github.io/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

DATA SCIENTISTS FOR LIFE

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