



Swiss Institute of  
Bioinformatics

BIOLOGY-INFORMED INTEGRATION AND VISUALIZATION OF  
MULTIOMICS DATA

# Introduction

Deepak Tanwar

February 17-19, 2026

# 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

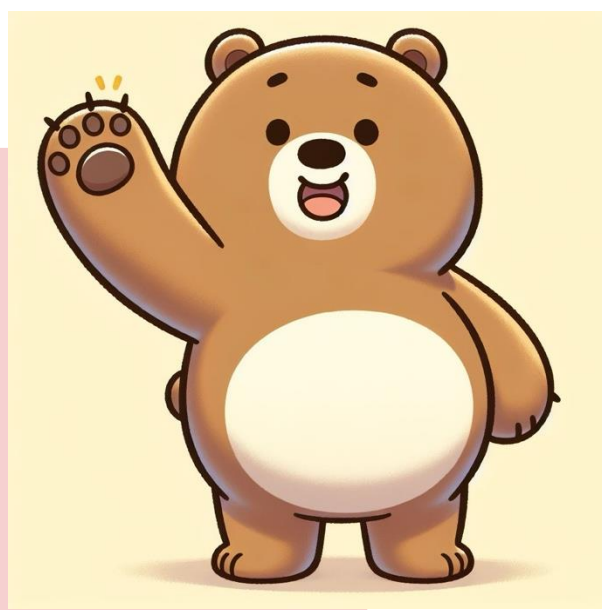
What do you do? (PhD/ postdoc)

Datasets you are using.

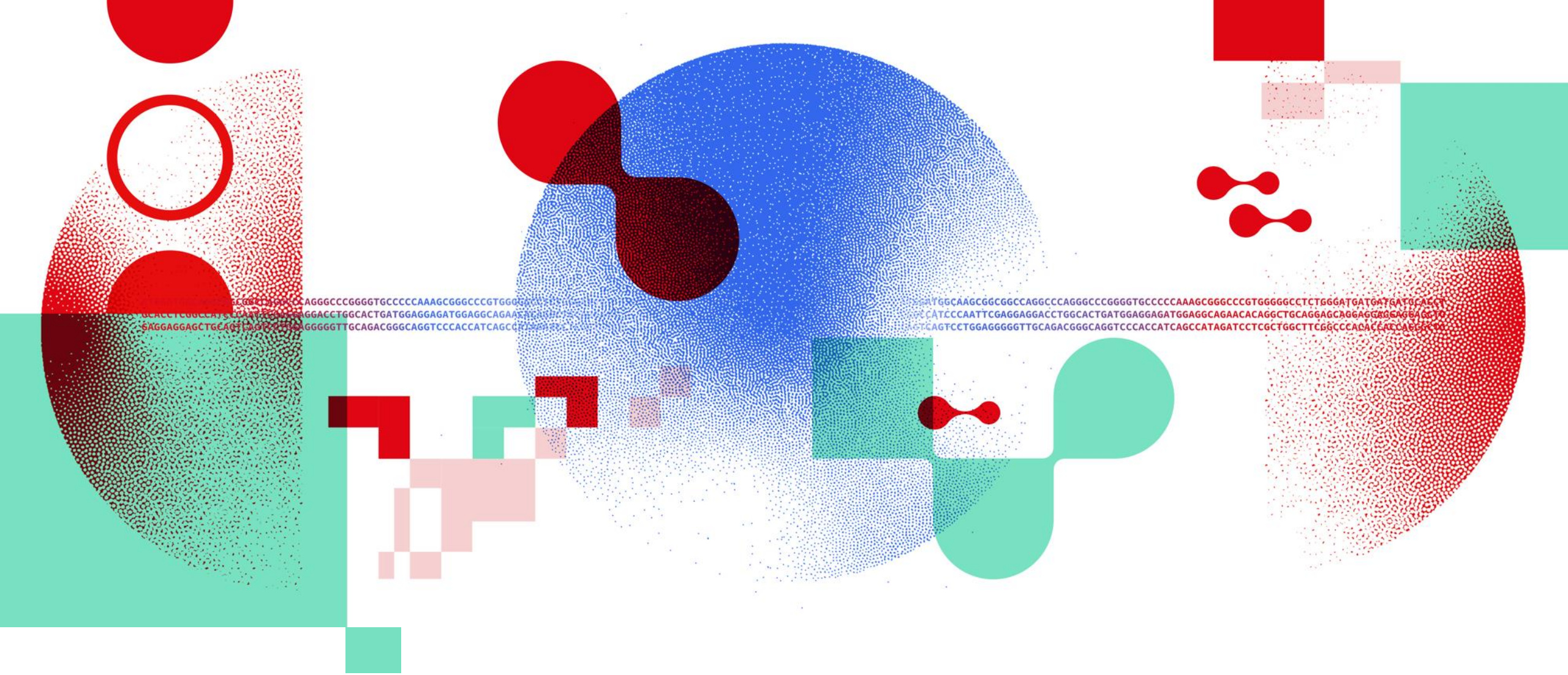
Your topic of research.

Why are you joining the course?

Do you know of any similar course?







# Thank you

DATA SCIENTISTS FOR LIFE

[sib.swiss](https://sib.swiss)