



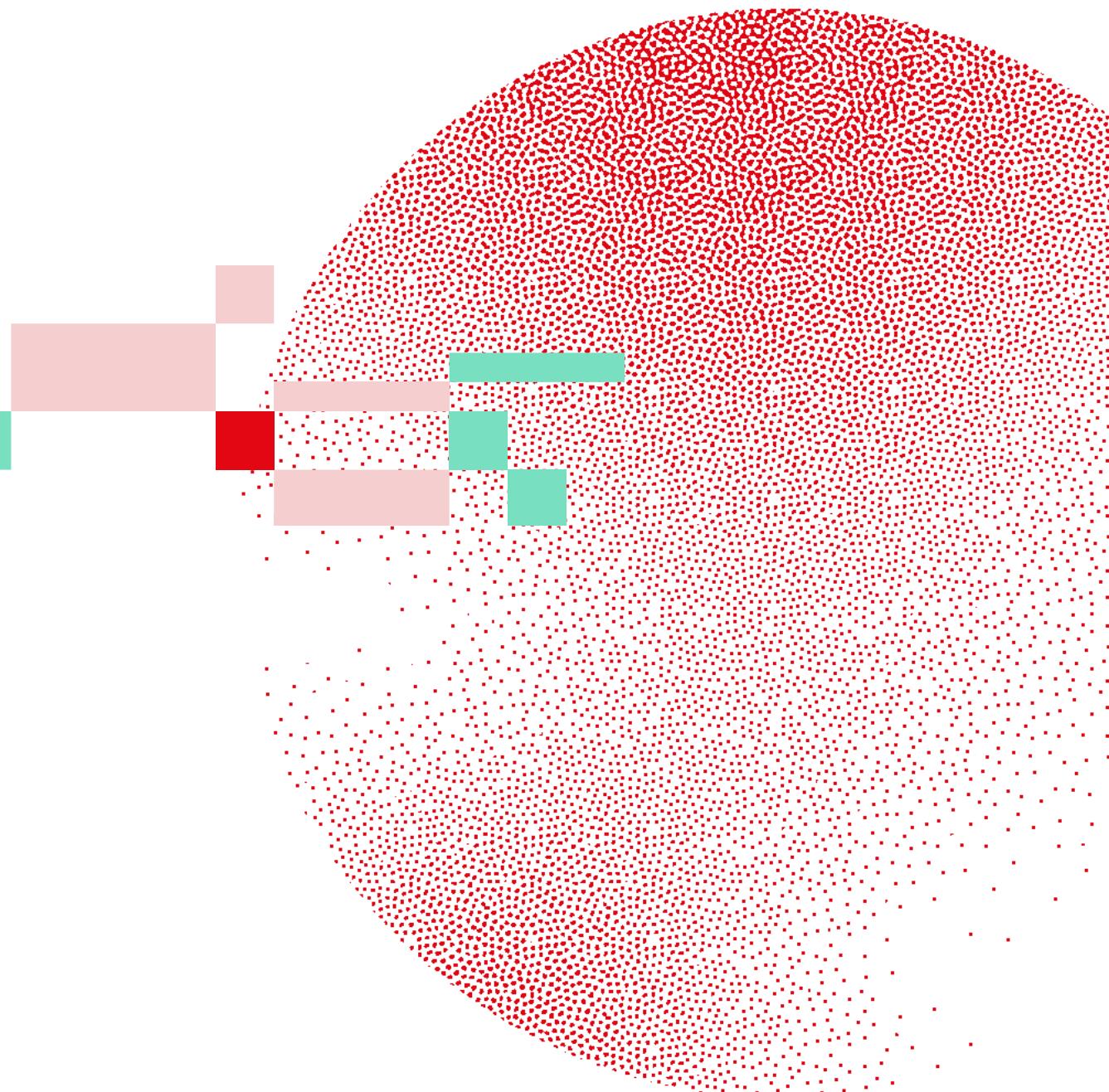
Swiss Institute of  
Bioinformatics

INTRODUCTION TO SEQUENCING-BASED SPATIAL  
TRANSCRIPTOMICS DATA ANALYSIS

# Introduction

Deepak Tanwar

December 9-10, 2025



# Trainers/ organisers/ helpers

- » **Deepak Tanwar:** Trainer at SIB & Bioinformatics Specialist at UZH
- » **Joana Carlevaro-Fita:** Trainer at SIB & Senior Bioinformatician at UNIBE
- » **Julien Roux:** Bioinformatician at SIB and UNIBAS
- » **Ivan Berest:** Senior Bioinformatician at SIB, EMBL, and UNIBAS
- » **Martin Emons:** Statistical Bioinformatics PhD student at SIB and UZH
- » **Peiying Cai:** Statistical Bioinformatics PhD student at SIB and UZH
- » **Mark Robinson:** Statistical Genomics Professor at SIB and UZH
- » **Geert van Geest:** Training Project Manager at SIB
- » **Patricia Palagi:** Training Group Leader at SIB

# Learning outcomes

- » **Explain & distinguish** SRT principles, applications, and sequencing vs. imaging approaches.
- » **Identify & interpret** data outputs, pitfalls, and metadata in SRT workflows.
- » **Apply** QC, feature selection, dimensionality reduction, differential expression, and spatial statistics to biological questions.
- » **Use** standard tools for multi-sample SRT analysis.

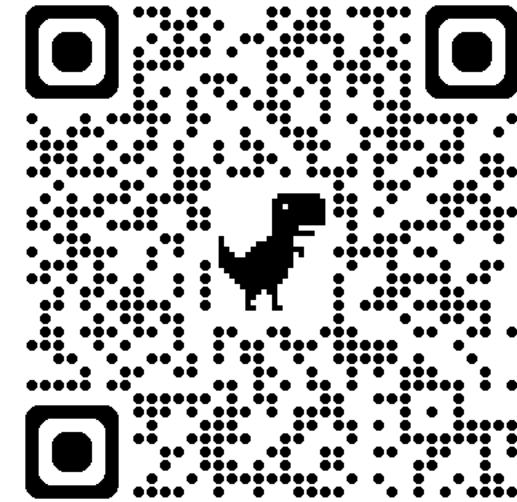
# Learning experiences

- » Lectures
- » Quizzes
- » Exercises

# Quiz: 1-4

# Communication

- » Course website: <https://sib-swiss.github.io/seq-spatial-transcriptomics-training/>



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

# Introduction round

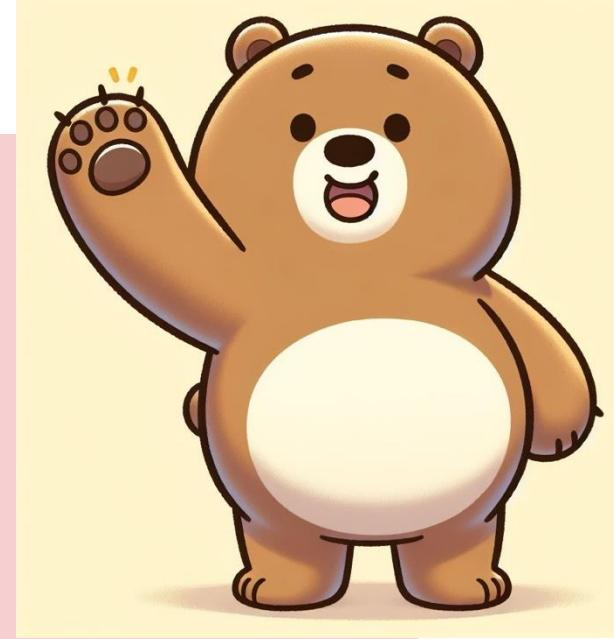
Your name

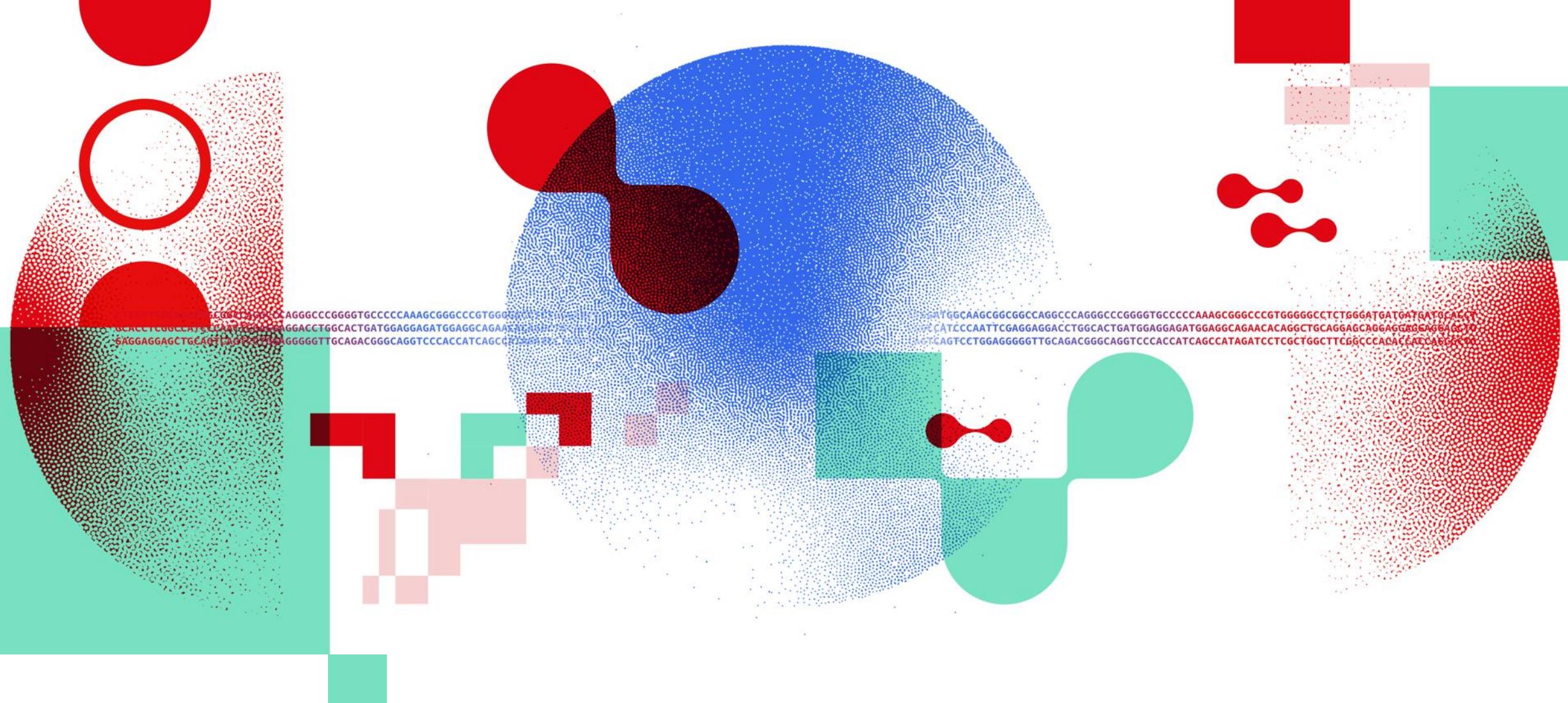
Your affiliation (SIB)

What do you do? (PhD/ postdoc)

Your topic of research

Why are you joining the course?





# Thank you

DATA SCIENTISTS FOR LIFE  
[sib.swiss](http://sib.swiss)