



Swiss Institute of  
Bioinformatics

# Single cell transcriptomics

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# Trainers/organisers

- **Diana Marek:** Training coordinator at SIB
- **Luciano Cascione:** Group leader of the Bioinformatics Core Unit (BCU) at IOR
- **Andreia Gouvêa:** Guest speaker, Field application scientist 10x Genomics
- **Geert van Geest:** trainer at SIB/bioinformatician at IBU Bern

# Learning outcomes

- Explain the **characteristics** of the most-used **methods** to scRNA-seq data
- Perform **quality control** at different steps of the analysis
- Use **dimensionality reduction** (PCA, t-SNE, UMAP)
- Apply **best practices** for **translating** single cell transcriptomic data into **biological knowledge**

# Learning experiences

- Lectures
- Quiz questions
- Exercises

# Question 1-4

# Communication

- Course website:

<https://sib-swiss.github.io/single-cell-training/>

- Google docs

# Introduction round

- Your name
- What do you do?
- Why you join the course

