



Swiss Institute of
Bioinformatics

Single cell transcriptomics

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Trainers/organisers

- **Gregoire Rossier:** Training coordinator at SIB
- **Rachel Marcone:** Bioinformatician at SIB
- **Tania Wyss:** Bioinformatician at SIB and UNIL
- **Alex Lederer:** PostDoc at EPFL
- **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

