



Swiss Institute of
Bioinformatics

SIB COURSE

Single cell transcriptomics

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Trainers/organisers

- »» **Diana Marek**: training coordinator as SIB
- »» **Deepak Tanwar**: trainer at SIB/Bioinformatics specialist at UZH
- »» **Joana Carlevaro**: trainer at SIB/Bioinformatician at IBU UniBe
- »» **Cassandra Litchfield**: Bioinformatician at Universitätsspital Zürich
- »» **Geert van Geest**: training project manager at SIB

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-r-training>
- »» Shared document :
 - General links for the course
 - Write your name for the exam

Introduction round

- ❖ Your name
- ❖ What do you do ?
- ❖ Why are you joining the course ?

