



Module PMRF-ISSS095/II/2025

Hands-on scRNA-seq analysis with scanpy

Name of the PMRF student

Harshavardhan BV

Required background of the students taught

Basic Biology
Python Programming

Details of the content of the module

Introduction to scRNA-seq techniques

Raw data processing

Data types and databases

Quality control and normalization

Dimensionality reduction and clustering

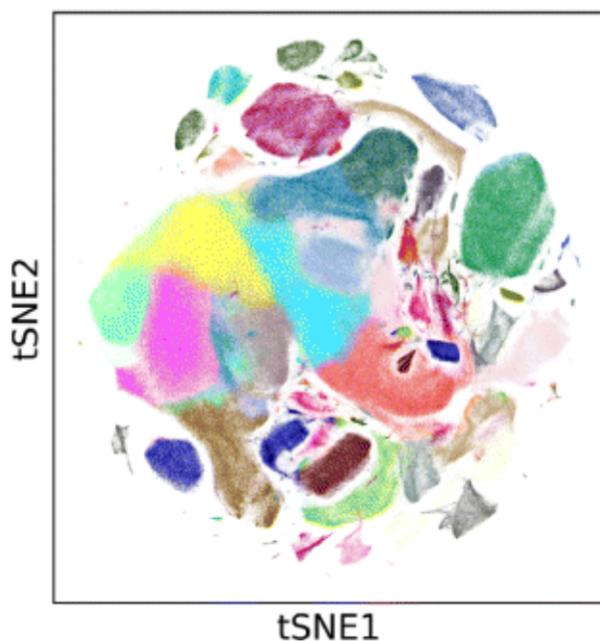
Annotation and differential expression

Gene set enrichment and pathway analysis

Data integration and batch correction

Pseudo time and RNA velocity

Cell-cell communication inference



Schedule of the module

Start: 23/09/2025

End: 23/10/2025

Timings:

Tuesdays and Thursdays: 6:00 PM to 8:00 PM

Meeting link : Will be shared later

Contact email ID: issforum@gmail.com

Registration link:

<https://forms.gle/QPLVEvsL1PVrLnmL7>