

Pre-class preparation

Please complete the following steps before the workshop.

1. Install the required software

1. 10x Genomics Loupe Browser

Download and install the latest version:

<https://www.10xgenomics.com/support/software/loupe-browser/latest>

2. R and RStudio Desktop

Install R first, followed by RStudio Desktop:

- R: <https://cran.r-project.org/>
- RStudio Desktop: <https://posit.co/download/rstudio-desktop/>

2. Install the required R package

Install **Seurat v5** by following the official instructions:

https://satijalab.org/seurat/articles/install_v5

Install **Semla** by following the official instructions:

<https://github.com/spatial-research/semla>

3. Download the workshop files

Download the **supp_files** folder provided by the instructor for the hands-on exercises.

Important:

- Keep the original folder name.
- Preserve the folder structure and filenames.
- Do not move, rename, or delete individual files inside supp_files.
- Store the folder in a location you can easily find during class.

Before class, confirm that RStudio opens successfully and that library (Seurat) runs without an error.