# **Shiny PCA**

#### 1. Installation

Requires miniconda or anaconda installed in for the user.

1.1 Run the install.bat file to create env and install necessary dependencies.

## 1.2 Manual install

Dependencies

r-base v 4.4.3

r-essentials

r-shiny

r-plotly

r-htmlwidgets

r-biocmanager

r-reactable

### CMD:

```
conda create -n shiny_pca
conda activate shiny_pca
conda install -c conda-forge r-base=4.4.3 r-essentials r-shiny r-plotly
r-htmlwidgets r-biocmanager r-reactable
```

## 1.3 Use R to install deseq2

#### CMD:

```
BiocManager::install("DESeq2")
```

# 2 App usage manual

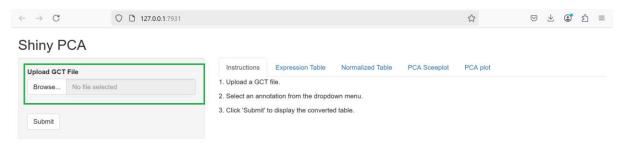
2.1 To launch the application run the following commands in powershell.

```
conda activate shinyPCA
run_shinyPCA.bat
```

The above command will start the shiny app.

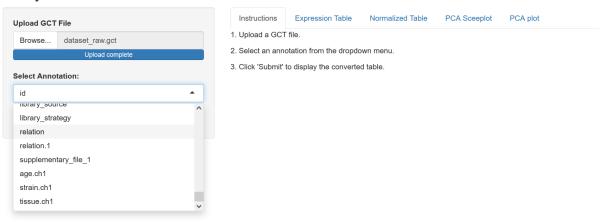
### 2.2 Input Data

The app takes gct file as input, upload the file in the marked section

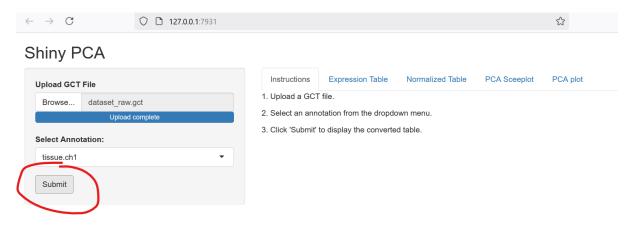


Once uploaded, user will be provided with the option to select metadata/annotation from the available information in gct file

# Shiny PCA



Select desired metadata from the drop down menu and click submit.



Once submitted users can browse the tabs on the main page to browse the result.

